Delivered.
The Global Logistics Magazine

ISSUE 03/2020

EXECUTIVE VIEW
PATIENT-CENTERED
Learn why medical device giant Medtronic thrives on innovation

BUSINESS
PICTURE OF HEALTH
Understand why life sciences companies are going digital

SOLUTIONS
WHEN THE GOING GETS TOUGH
How to guide your business through a crisis

WALK ON
How resilience can help you weather the storm
Dear Reader,

The coronavirus crisis, which has affected every industry at unnerving speed, has underlined how vital it is for businesses to respond rapidly to new challenges in increasingly inventive ways. Those that can react quickly and creatively have a better chance of bouncing back from disruption and damage. These companies truly know the secret of resilience, which is a theme running through this issue of Delivered.

To be resilient, you have to be able to accept and then adapt to your new reality. Companies in the life sciences and healthcare sector (LSH) understand this only too well. COVID-19 has highlighted the incredible skills and expertise of innovative LSH teams across the world – and continues to do so. Their response to supply chain shocks caused by the current crisis has been remarkable and, as our Focus article points out, includes employing new digital approaches to transform the use of data in manufacturing and the wider supply chain.

It’s comforting to know that while LSH companies remain laser focused on helping people in the present, they also realize they must make improvements to their operations for a more resilient future.

Take medical device company Medtronic, for instance, one of the heroes of the coronavirus pandemic. Sikko Zoer, Vice President, Global Supply Chain Distribution and Logistics, tells us about the adjustments his company had to make to ensure patients remain at the center of its mission during the rapidly changing COVID-19 situation. Of course, the life sciences sector is keen to be as sustainable as possible and prove that it can make changes to the way it operates while benefiting the environment. Healthcare for the planet explores this thinking in more detail, as does our new feature The debate.

The impact of COVID-19 has been so severe that it has put many logistics networks under unprecedented strain, as you can read in Supply chains in crisis. However, those companies that have made supply chain resilience part of their business culture have been able to cope best with the pandemic, notes Professor Richard Wilding, the world’s foremost supply chain expert and the subject of this issue’s Delivered. talks to interview. Wilding also reveals why, post-coronavirus, he believes companies will have to make big changes to the way they design their supply chains – including procurement for resilience rather than cost – and the implications this may have for them and wider society.

Finally, we investigate the human side of resilience. Chris Weeks, Director for Humanitarian Affairs at Deutsche Post DHL Group, tells us why he believes most people are adept at accepting and dealing with their “new normal,” even in disaster scenarios. And in The spirit of resilience we hear from various inspiring individuals – including acid attack victim Katie Piper and Syrian war refugee Randa Mando – who reveal how they triumphed in the face of incredible adversity.

In these difficult times, I hope you will find this issue both enlightening and helpful.

Sincerely,

Katja Busch
Chief Commercial Officer, DHL
CONTENTS

FOCUS

10 Data life
Life sciences companies are using digital tech to transform their operations

16 Healthcare for the planet
Delivering for society without damaging the environment

18 Delivering healthcare products in a time of need
The rise and rise of medical device company Medtronic

BUSINESS

21 The spirit of resilience
Meeting inspiring people who have overcome adversity

24 Rebooting retail
The post-coronavirus landscape for traditional retailers and their consumers

SOLUTIONS

28 Delivering cargo at hypersonic speed
A concept plane whose speed would revolutionize cargo transport

30 Master of disaster
Talking resilience with Chris Weeks, Director for Humanitarian Affairs at DPDHL

32 Supply chains in crisis
Discovering how global supply chains have been responding to COVID-19

VIEWPOINTS

36 Delivered, stress tests the supply chain with...
Logistics expert Professor Richard Wilding

38 The debate
Monika Schaller and Dr. Kirstie McIntyre discuss climate change after COVID-19

40 Crisis management – remain in control!
An essay by Sven Gade, professional coach and workshop facilitator

42 Putting climate change on the curriculum
Helping pupils and teachers understand green issues

NEWS

08 Propping up the front line
How DHL is working to transport life-saving assistance and goods during the pandemic

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Paper
This magazine is made from 100% recycled paper.

We are committed to protecting the environment and the world’s resources.

The icons above indicate additional online resources.
The challenges of COVID-19 have forced us into new ways of working, and accelerated innovations are already on the horizon. DHL Global Forwarding has done some nimble thinking of its own, developing a new digital platform that gives customers full visibility and control over all shipping and transport modes. The portal, myDHLi, is the only fully integrated online platform for freight forwarding, and merges existing services such as myDHL Quote + Book and myDHL Analytics with new features. Its intuitive and customizable interface incorporates familiar social media functions such as “Follow” and “Share” can display detailed shipment data and gives users control from pickup to final delivery. The service will be trialed in North America, Europe, Asia, Australia and Africa.

QUICK THINKING

DHL’s Coronavirus Supply Chain Resources

The booklet has been designed to provide the group’s key facts and figures at a glance — such as strategy, variety of business models, milestone moments and how the group is making a positive contribution to society and the environment. For a printed or online version, please visit bit.ly/dpdhlpocketguide.

THE BEST CITIES FOR HOME WORKING

A ranking carried out by CEOWorld magazine named San Francisco the world’s best city for remote working. In a timely nod to the new ways many of us have had to do our jobs recently, the survey took into account factors such as internet speed, number of coffee shops, availability of food delivery, co-working spaces and the number of remote working jobs, plus cost of living considerations. According to this poll of the world’s 60 largest cities, Dubai came a close second, with Delhi third. Las Vegas and New York were also in the top 10, but London and Paris only managed a lowly 15th and 17th respectively.

CEOWorld’s best cities for working from home

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E-commerce deliveries generate a mountain of packaging waste — estimated at 100 billion pieces a year. LivingPackets is one of several companies tackling the challenge. It aims to cut it down with The Box: a sustainable, secure and smart piece of packaging that can be used a thousand times over. The Box is equipped with sensors and an internet connection that can report on weight changes, position, openings, shocks, temperature and humidity. There’s even a built-in camera. An integrated holding system means there’s no need for internal packaging such as bubble wrap, much of which ends up in our oceans. LivingPackets aims to launch The Box in 2021.

CLARION CALL

VentilatorChallengeUK has seen a consortium of businesses — including Rolls-Royce, Ford, Airbus and Formula One teams — pull out all the stops to develop and manufacture ventilators to help protect the National Health Service (NHS) and save many lives. DHL Supply Chain (DSC) is playing its part by helping to manage this complex and remarkable operation. DSC’s role involved collecting some 3.2 million parts from suppliers, then handling, storing and delivering them to the assembly lines of Airbus and Siemens in Wales, Ford in east London and the McLaren F1 team in Surrey. Final assembly of the ventilators took place at Penslon’s Oxfordshire factory.

A SMART WAY TO SEND

E-commerce deliveries generate a mountain of packaging waste — estimated at 100 billion pieces a year. LivingPackets is one of several companies tackling the challenge. It aims to cut it down with The Box: a sustainable, secure and smart piece of packaging that can be used a thousand times over. The Box is equipped with sensors and an internet connection that can report on weight changes, position, openings, shocks, temperature and humidity. There’s even a built-in camera. An integrated holding system means there’s no need for internal packaging such as bubble wrap, much of which ends up in our oceans. LivingPackets aims to launch The Box in 2021.

At the wheel

Speed matters to save lives. Maha Al Madli went beyond the call of duty to do so in Dharan, Saudi Arabia’s Eastern province. The Retail Supervisor at DHL Express used her own car to move six urgent medicine shipments on behalf of the King Faisal Specialist Hospital. In the early morning, she drove between two sites to facilitate same day delivery before the coronavirus curfew. “We work from the heart, she says. DHL’s purpose is Connecting People. Improving Lives. So, doing this was not extraordinary. It’s just part of our mission to be insanely customer centric and to do everything with joy.”
PROPPING UP THE FRONT LINE

As COVID-19 rages across the world, DHL and its workers toil tirelessly to transport life-saving assistance and goods where they’re most needed.

Despite having been released in 1964, Bob Dylan’s classic title track “The Times They Are-a-Changin’” may never have been more apropos and prophetic than today. As I write this article, it is hard to truly define what a life sciences and healthcare company is anymore. In light of the urgent need to find ways to save lives worldwide, we have seen hundreds, even thousands of initiatives, both corporate and personal, to try to assist in the battle to thwart the rapid spread of COVID-19 and the associated loss of life, which has had such tragic impact around the globe. Certainly, many of those initiatives have included huge outlays of money, along with large donations of personal protective equipment (PPE), to support embattled healthcare, workers who labor so perilously on the front lines to help prevent the spread and save lives.

Nevertheless, along with financial commitments and tremendous donations of PPE, we have also seen other ingenious and incredible initiatives to support the hard-hit global healthcare system. Alcohols distillers, breweries, manufacturers of consumer goods and even cosmetics companies are now working to produce hand sanitizer and soaps to help prevent viral transmission. Fashion companies and retailers are actively leveraging their capabilities to produce personal protective equipment—primarily gowns and masks—to supplement the global supply, which has been so severely strained by this pandemic. As PPE and medical equipment manufacturers have open-sourced details on how to build ventilators, face masks and other critical items for healthcare and other essential workers, we are now seeing automotive and other equipment manufacturing companies redesigning lines to support the global need.

Of course, we are also seeing the convergence of some of the world’s leading technology companies, leveraging their artificial intelligence (AI) capabilities to analyze the incredible amounts of data about COVID-19 from around the world. This collaboration of high-tech, biotechnology and biopharmaceutical companies, along with the World Health Organization and national health institutions, is searching for ways to accelerate the development of successful ways to combat the disease and, ultimately, an effective vaccine in order to prevent infection and transmission in the future.

The common link in almost all of these initiatives is finding a way to get the necessary PPE, medical devices and pharmaceutical treatments into the hands of the healthcare workers treating patients on the front lines. That is what our customers have asked DHL to try to do from day one. When China locked down Hubei province on January 23, DHL Express was working on behalf of a major medical device manufacturer to deliver ventilators to the embattled area within days in an effort to try to help save lives.

I can proudly say that throughout DHL, these efforts have continued every single day since the outbreak in China became the global pandemic we are now confronted with. Shortly after China expanded the lockdown to encompass the entire country, including Hong Kong, most major airlines discontinued services to and from China. This made the problem of moving healthcare supplies to China quite a challenge—but we have acted to support the sector with access to dedicated airfreight capacity. We initially moved thousands of tons of medical devices and pharmaceuticals from Europe and the U.S. into China—and now in the opposite direction, as many tons of PPE, pharmaceuticals and medical devices move out to other countries each and every day.

The challenge has continued to grow, as much of the world’s airfreight capacity has disappeared with the temporary shutdown of passenger flights around the world. Nevertheless, we have been able to leverage our own dedicated flight capacity and secure additional market capacity to keep the healthcare supply chain moving throughout the world.

We are now actively transporting hundreds of tons of PPE, medical devices and pharmaceuticals across the globe each and every week on behalf of our customers. These efforts are not only limited to healthcare but are spread across all sectors, as companies put out all the stops to make a contribution to this battle. DHL’s strategic imperative is “Connect People and Improve Lives” and this may never have been truer than it is today.

DHL’s battle is not restricted to transportation. We are finding ways to keep warehouses open and healthcare operations going in countries such as Italy, Singapore, India and others where conditions have been exceptionally challenging. In addition to the efforts against the COVID-19 global pandemic, as the southern hemisphere prepares for winter we are also being challenged to continue to support the compliant transportation of all the necessary vaccines to help prevent the spread of another influenza outbreak or other potentially crippling and dangerous condition.

I am amazed and humbled when I see the efforts being made by so many companies in the pharma and medical device industries in order to deliver critical supplies to medical teams and patients. And it is heartening to see how many other businesses are coming in to collaborate, join forces and provide support. If this crisis teaches us anything, it is that together we are stronger—and united, as collaborators and co-innovators, is how we will beat this pandemic.

Everyone in the DHL Healthcare System is committed and working as hard as possible to support the global healthcare system, and we could not be more committed or grateful for the opportunity to try to make a difference.

Larry St. Onge, larry.stonge@dhl.com
Life sciences companies are using new digital approaches to transform their use of data in manufacturing and the wider supply chain.
n 1747 James Lind, ship’s surgeon on the HMS Salisbury, conducted a pioneering medical experiment on 12 members of his crew. They were all suffering from scurvy, a widespread and often fatal condition that afflicted thousands of sailors on long voyages. Lind divided the group into pairs and offered each pair a different treatment. The options included daily doses of seawater, vinegar and cider, but one pair received two oranges and a lemon each day. After a week, the health of the men who ate the citrus fruit had improved dramatically; one was even well enough to resume normal duties. Lind’s experiment is now considered the precursor of today’s clinical trials. Although he didn’t understand the root causes of scurvy (a lack of vitamin C in the diet), Lind had discovered an effective treatment for a condition that afflicted thousands of sailors on long voyages.

Modern medicine is built on data. Novel treatments undergo a rigorous series of trials, and the sector has developed sophisticated experimental protocols and analytical techniques to assess the efficacy and risks of drugs and medical devices. Advances in computer modelling and simulation techniques are helping companies to conduct an increasing share of drug discovery and early development work “in silico.” The quantity of data available to the life sciences industry is growing extremely rapidly. A 2018 analysis by Dell EMC suggested that the volume of data held by the world’s healthcare organizations increased by 878% in just two years. Drug companies are also making greater use of secondary sources of data — for example by mining social media feeds for references to rare adverse reactions to their products. The sector is also investing heavily in new data analysis tools and approaches. In the third quarter of 2019, for example, U.S. investors poured $1.5 billion into companies that use artificial intelligence (AI) and machine-learning techniques for biopharma applications. That sum represents a quarter of total U.S. AI funding over the period.

Minding the gaps

Yet despite their reliance on data for upstream research and development activities, many companies in the pharma and medical device industries have significant blind spots when it comes to the application of data in their downstream operations. Manufacturing and distribution operations in the healthcare sector are complex and highly regulated. That environment has encouraged organizations to develop “silos” structures with different divisions, each of which focuses on excellence in their own function at the expense of close collaboration across the wider business. The sector’s frequent mergers and acquisitions add additional complexity. When two companies join forces, they create duplicate silos in their sales, manufacturing, supply chain and other functions. Connecting and eventually integrating those silos can take significant time and effort, especially when the merger participants previously used different technologies, processes and organizational structures.

The sector’s complex market channels make the picture even more opaque. Many items pass through a long chain of stakeholders — including distributors, wholesalers and pharmacies — before they reach the medical professionals who prescribe them or the patients who use them. A manufacturer may have little direct contact with its end customers in this scenario, and no real idea how its products are being used.

The integration imperative

The healthcare sector’s “divide and conquer” approach worked pretty well for decades, but it is now facing significant pressure from a number of different directions. On one side, rising healthcare costs mean payers are negotiating harder with their suppliers, pushing prices down. Similarly, middle-income countries striving to improve the provision of health services to their citizens need to keep a close eye on every dollar spent. Tighter margins force companies to look for significant cost savings and operational improvements, something that requires close collaboration between functions and an end-to-end view of business performance. On the other side, a new generation of complex, costly and increasingly personalized treatments is forcing companies to rethink the way they make medicines. Where products are short-lived, custom-made or just hugely expensive, high inventories are no longer a feasible solution for supply chain shortcomings. Where there are supply chain shocks. As the COVID-19 pandemic has demonstrated, all too clearly, supply and demand in the healthcare sector can be subject to extreme volatility. An organization’s ability to respond to such events depends on a clear understanding of the capacity and flexibility available across its operations.

From silos to data lakes

In response to these challenges, the industry is embarking on a large-scale effort to change the way it uses operational data. Companies are pooling data from different functions and different parts of the supply chain into “data lakes.” Then they apply new analytical tools to extract more information from that data to facilitate better, faster decision-making.

Medical companies are using digital technology to improve services. Other organizations are using digital tools to alleviate burdensome data sharing between supply chain participants. GE Healthcare and biopharma company
Amgen, for example, have established a digital data exchange system between their respective manufacturing operations. GE manufactures biological materials that Amgen processes into finished products. The new system provides scientists and engineers at Amgen with detailed information from the GE production lines, allowing them to see exactly how variations in raw materials affect downstream manufacturing operations and the quality of end products.

In the medical device sector, companies are taking advantage of internet of things (IoT) technologies to extend their operations all the way to the point of use. Philips, for example, offers a suite of remote monitoring, upgrade and diagnostic services for its range of medical imaging equipment. The company says that its remote service engineers can continuously analyze equipment to proactively detect any potential issues and take appropriate corrective action.

**Data in logistics and transport**

Data is also helping life sciences companies to improve the performance of their logistics processes, says Larry St. Onge, President of Life Sciences & Healthcare at DHL. He describes how DHL is using the data generated by its Thermonet network to help customers improve the reliability and cost-effectiveness of their logistics systems.

“We have operated Thermonet for eight years as a dedicated, standardized network for temperature-sensitive life sciences shipments,” explains St. Onge. “The network has multiple elements, including staff trained in suitable operating procedures and certified warehouse facilities around the world, but an important part of the system is its data platform.”

Shipments moving through the Thermonet network are equipped with wireless data logging devices that record the temperature outside a package throughout its journey. Those sensors act as an alarm system, transmitting an alert to a DHL control tower if a package spends too long in an uncontrolled environment. They also allow DHL to track conditions across the network, helping it continually to adapt and improve performance. “Thermonet data helps us run an extremely reliable network,” says St. Onge. “But now, with years of data from many thousands of shipments available, we can also apply smart analytics to add value for our customers.”

Thermonet data is already being used to aid the selection of transport lanes, explains St. Onge, allowing companies to avoid routes where the risks of temperature excursions are the highest. “Now we are also able to use our data to make recommendations about the most appropriate packaging systems for a given route,” he says. “If we see that packages in a certain lane only experience high temperatures for two months of the year, we can suggest that the customer adopts lower-cost passive packaging most of the time, only using the most expensive active cooling systems when they are really needed.”

The ability to pick the right packaging solution for every shipment can have significant impact on the overall cost of logistics, says St. Onge. And it can also help companies when supply chains are stretched, enabling them to make logistics decisions that minimize risks while keeping vital supplies moving. “When you combine historical Thermonet data with real-time information on supply chain risk from sources such as DHL’s Resilience360 platform, you have a really powerful set of tools to aid logistics operations in demanding and unpredictable environments,” says St. Onge.

The healthcare sector is grappling with the most significant challenges it has faced for decades. The industry’s mastery of data—in research, in the supply chain and in the wider community—will be a critical part of its response.

**Questions for…**

1. What is the situation today for your customers in the healthcare and life sciences sectors? I don’t think any industry has escaped the impact of the coronavirus, but different sectors are affected in different ways. While some businesses have seen dramatic drops in demand, or halted their operations altogether, life sciences companies have a responsibility to keep their supply chains flowing for the sake of people who rely on their products. So our customers are continuing to operate in extremely demanding conditions, and of course plenty of them are right at the front line of the crisis, providing vital supplies to support victims of the virus and working at pace on the development of new tests and treatments.

2. Has the industry had to adapt its supply chains as a result of the crisis? Yes, we are seeing a big response across the sector. Some companies are reconfiguring their manufacturing to ramp up production of products that are facing urgent demand, and they are having to do that in a very challenging environment with whole economies under lockdown and other restrictions—and, of course, a pressing need to keep their people safe. Logistics systems are under great pressure too—notably airfreight, which is critical to the sector. The collapse in global passenger air travel has taken around half the normal airfreight capacity out of the system, with the loss of the belly cargo space that was widely used for medical and pharmaceutical shipments.

3. How has DHL responded to support its life sciences customers in the crisis? The whole organization has mobilized to support customers through the crisis, activating our existing business continuity plans, which did include provisions for epidemic and pandemic situations, and introducing a swathe of new measures designed to protect our people and safeguard our operations. We have tasks forces in place to monitor the situation as it evolves, allowing us to adapt our processes at a global, regional and local level.
Sustainability is climbing the agenda for life sciences and healthcare companies. Now the sector wants to prove that it can deliver greater benefits to society with fewer costs for the environment.

Increasingly, however, the industry is recognizing it is no longer acceptable to think only about the needs of customers and shareholders, that narrow perspective is now deeply unfashionable. Business leaders know that they also need to look after the employees in their facilities, the communities in which they operate and the wider natural environment. Failure to do so has real consequences. Customers, investors and talent may walk away.

Non-governmental organizations (NGOs) and protest groups may generate negative publicity or even disrupt operations. Governments and regulators are increasingly willing to impose onerous fines or even shut down non-compliant operations.

The sustainability imperative has also reached the life sciences and healthcare sectors. Pharmaceutical and medical device companies have always been able to claim that their work provides significant social benefits, perhaps reducing the imperative to take action on other sustainability fronts. Increasingly, however, the industry is recognizing that every organization has a responsibility to address the full spectrum of social and environmental impacts stemming from its activities. One area of particular focus is the issue of waste and the impacts stemming from its activities. One area of particular focus where many are focusing their efforts is on waste and pollution generated by the production, distribution and use of medical products.

Big pharma, big footprint

According to research by the non-governmental organization Healthcare Without Harm and consultancy Arup, the global healthcare industry is responsible for 4.4% of total greenhouse emissions. If healthcare services are delivered. They come directly from the facilities and vehicles used by health service providers and indirectly from the energy that providers buy for heating, cooling and running equipment.

The production, transport and disposal of pharmaceuticals, medical devices, hospital equipment and instruments.

Other research suggests that the industry has plenty of scope to reduce its supply chain emissions. Lofti Belcheri and Ahmed Elmeligi at McMaster University in Ontario, Canada, calculated the carbon footprint of one of the largest global pharmaceutical companies. Their paper, published in the “Journal of Cleaner Production,” found that the emissions intensity (a measure of carbon dioxide produced per unit of revenue) varied by a factor of five between companies of a similar size.

Deeper cuts

As is usually the case, environmental excellence requires stamina and commitment. Johnson & Johnson (J&J), one of the best performers in the McMaster University study, has included “Protecting the Environment and its Natural Resources” in its mission statement since the 1970s. The company has reduced its carbon emissions by 10% over the past decade and aims to cut them by 80% by 2050.

Some J&J facilities are already ahead of the curve. The plant in Helsingborg, Sweden, for example – where subsidiary McNeil AB manufactures smoking cessation products — is redesigning its products to enable customers to reuse or recycle more of their components.

Finding the best balance

Similar trade-offs are common when it comes to reducing the environmental impact of healthcare logistics activities.

“Over the past three years, we’ve had a growing number of requests from life sciences customers to investigate sustainable packaging solutions. It’s a difficult challenge,” says Janine Morbach, Regional Transport Manager (for temperature-controlled packaging) at DHL. “The first question you always have to determine is the customer’s priority, which might be to cut carbon emissions, or to reduce the consumption of plastic in the supply chain.”

Since many healthcare products need tight temperature control in transportation and storage, the sector makes aggressive use of insulated packaging in its distribution networks. Expanded polystyrene (EPS) is the traditional solution here, providing an appealing combination of low cost, good thermal properties and light weight. As consumers and regulators turn against single-use plastic packaging, however, companies are looking for alternatives.

“For healthcare applications, companies are looking at bio-based single-use insulation systems, such as cotton wadding,” says Morbach. “And there is a growing interest in returnable packaging, too.”

Making the switch to more sustainable packaging isn’t straightforward, she adds, noting that the bio-based, single-use solutions currently on the market can’t keep shipments cool for more than two days, a requirement for shipments that might need to wait three or four days for customs clearance.

Returnable systems, such as those using lightweight vacuum insulation panels, offer very good thermal performance, but users need to factor in the cost, complexity and carbon emissions associated with the return journey. One possible solution here is the use of pooled container fleets, which can take loads from multiple shippers, reducing the need for empty return journeys.

To date, these challenges – along with their higher upfront costs – mean sustainable packaging systems have found only niche roles in the healthcare supply chain. That role is expected to grow, however, as the industry looks for ways to help its most important patient: the planet.
Medtronic was born in its founder’s garage. In 1949, electronics engineer Earl Bakken and his brother-in-law Palmer Hermunds- lie started a business repairing medical equipment in Bakken’s Minneapolis home. The pair gained a reputation for reliable and innovative work, often improving the devices that they fixed.

In the mid-1950s, Bakken’s work in Minneapolis brought him into contact with C. Walton Lillehei, a University of Minnesota cardiac surgeon. Lillehei was pushing the frontiers of heart surgery but was frustrated by the limitations of the pacemaker technology available at the time. The existing systems were bulky, mains-operated devices. That severely limited a patient’s lifestyle and meant that a power cut could be a life-threatening event. Lillehei asked Bakken if he could come up with a better solution.

Bakken’s first device was extraordinarily simple. He adapted a two-transistor circuit originally designed to run an electronic metronome for musicians, packaging the hardware into a small box with a 9.4-volt battery. Within weeks, Lillehei was equipping patients with the new portable pacemaker, and the success of the product set Bakken’s firm on a trajectory that would see it become the largest medical electronics company in the world.

Today, Medtronic is a $30 billion business with more than 90,000 employees in 150 countries. It is active in multiple areas of medical technology, with a product range that goes well beyond pacemakers to include everything from artificial heart valves to surgical robots. Those products are developed in a network of 21 laboratories and R&D sites and produced at 76 manufacturing facilities around the world.

One network, one mission
Sikko Zoer, Vice President of Global Supply Chain Distribution and Logistics at Medtronic, is responsible for connecting the company’s manufacturing operations with the estimated 70 million people who rely on its products every year. The organization’s portfolio includes thousands of SKUs and 3,800 people in the supply chain organization who manage thousands of shipments worldwide every day.

The Medtronic supply chain is complex. The company runs a “centers of excellence” model in manufacturing, which involves concentrating the production of key technologies – such as batteries – in specific locations and shipping those parts around the world to be integrated into end products. Its objective, however, is simple. “Our mission is all about the patient,” says Zoer. “The patient is at the center of everything we do. That means ensuring our products are available at the moment a patient needs them.”

Smart segmentation
Like many organizations in the healthcare industry, Medtronic has traditionally ensured product availability by keeping plenty of stock in its distribution network. As with the rest of the sector, however, the company is looking for ways to achieve high service levels at lower cost. The need to control costs is a worldwide phenomenon, says Zoer: “High income markets are adapting to the healthcare demands of an aging population, and Medtronic is extending its distribution chains into a growing list of emerging markets.” In our industry, it’s common to rely on distributors in new markets, but our strategy has been to build our own presence as early as we can.’

To balance availability and efficiency, Medtronic is applying increasingly sophisticated techniques across its supply chain. “You need to be smart about everything you do,” says Zoer. “For example, we are now segmenting our product lines and tailoring our supply chain approach to suit those segments. Trauma products, for instance, require very rapid availability, so we have systems that can deliver in...
three to four hours. Where a product is used in elec-
tive treatments, there is more planning involved and 
customers can often work with a longer lead time.”

Predictive planning and digital twins
New technologies have a big part to play in a smarter supply chain, and Medtronic is making significant in-
vestments to ramp up its digital capabilities. “We are introducing integrated business planning across the 
organization by upgrading our planning capabilities: using new tools for our core planning activities; and 
developing our use of advanced analytics, predictive analytics and scenario planning,” says Zoer. “We are 
investing in robotic process automation (RPA) to improve the speed and quality of our internal processes, 
and in distribution we are working hard to achieve end-to-end visibility.”
Perhaps the organization’s most ambitious ongoing digital effort is a project to build a digital twin of its manufacturing and distribution network. When complete, says Zoer, the new system will 
significantly increase Medtronic’s ability to monitor the flow of materials and product through its supply 
chain, helping to make the best possible use of the available capacity. In the longer term, it will be used to 
inform strategic decisions about the design and 
configuration of the supply chain.

Front-line innovation
Even the smartest digital tools can’t address some 
longstanding supply chain challenges. For Medtroni-
c, one key issue is poor visibility at the edges of its 
networks. Hospitals often keep stocks of medical 
device consignment stock on a consignment basis, 
recording only as it is used. Such systems should ensure 
instant availability, but their effectiveness depends on 
timely and accurate record keeping, which places an 
additional burden on front-line medical staff. 

Today, says Zoer, Medtronic is working with cus-
tomers where it makes sense to move away from the consignment model to one in which products are de-
ivered at short notice from forward stock locations 
maintained by its distribution partners. “Using forward 
stock locations gives us better control and helps 
manage by our success,” he said later. “Judge me by how many times I 
have proved to your customers that you get them 
what you need, when you need it.”

“I think acceptance is the key word here. Accepting the 
new normal” is hugely important, because that 
way you aren’t setting every day up for failure or 
appointment. For me, having a routine every 
day helps reduce anxiety, getting up, getting 
dressed, working out, school timetable for the 
children. Exercise is my biggest therapy – I love 
running, I love weight training. I also take time 
to meditate, listen to podcasts, write for my new 
book, research for my own podcast – for me those 
are my coping mechanisms, so it’s important to find 
your version of those to help overcome anxiety in 
an uncertain time.

What has been your proudest personal achieve-
ment? 

Ah, that’s a hard one. I’d say my proudest personal achievement is my wonderful girls, 
Penelope and Belle. They are my pride and joy, 
many wonderful people who were trying to help me, 
including the incredible National Health Service (NHS) 
medical staff and my burns surgeon, Dr. Mohammad 
Jawad – he saved my life. I could start seeing progress 
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and I love spending time with them. I was unsure I could have children after my medical history, so I feel so blessed to have them in my life. My proudest professional achievement has to be my charity, The Katie Piper Foundation – we recently celebrated our 10th anniversary. We have now helped thousands of burn survivors, and those with burns and scars. In 2019 we opened the UK’s first burns rehab center, which felt like such a proud moment for us. Our patron Simon Cowell came on the opening day to see the center and meet the staff, nurses and volunteers – it was a really great day.

Is there anyone who particularly inspires you with their resilience? It has to be my mum, Diane. She is such a strong, inspirational woman. She, alongside my dad, brought me, my brother and sister through a tough time, you naturally build it over time. And often pretty emotional!

“The resilience is of course something you can build – if you move through a tough time, you naturally build it over time. And often in tough times, you pull on strength you don’t realize you even possessed.”

Katie Piper
katipiperfoundation.org.uk

LEARNING THE LESSONS OF RESILIENCE
Finding “the good” in the middle of “the bad”
Randa Mando was a normal, carefree Syrian child with a happy family and social life, who loved going to school and playing with her friends.

Then the war began. Randa’s house was located in the center of the city of Homs, where there was an immediate threat of violence and kidnapping, and the sound of explosions was unremitting. Soon she had to stop going to school because it was too dangerous to leave the house. So, in 2012, when Randa was nine, her parents took the decision to leave Syria and take her to Lebanon. Starting a new life in a foreign country was hard, but Randa wanted to make the best of things. She enrolled in a school featuring teaching participants from the Teach for Lebanon program (part of the 53-nation Teach for All network), and applied herself to her studies.

At first she found it hard to learn in English, but Randa refused to give up. As a result, she grew in confidence and her English improved. Now her school is closed due to COVID-19, so she is learning German online, and hopes to join the Beirut branch of the Goethe-Institut, an organization that promotes the study of the German language abroad and encourages international cultural exchange.

Randa has had to be resilient for much of her young life, and is dealing with the coronavirus pandemic the same way she has dealt with other crises: by finding the good in a bad situation. “In my opinion, quarantine has impacted me positively and negatively,” she says. “The negative side is my separation from social life and not being able to leave the house as usual. However, the positive impact is increased awareness about health and the importance of work and daily routines in our lives. Plus, communicating with people is a vital part of our lives, which we didn’t appreciate before COVID-19.”

“Corona added stress and anxiety to my life. I try to minimize its effect through organizing my time and dividing it between exercise and studying.”

Randa Mando
teachforlebanon.org/

KEEPER KEEPS POSITIVE
Viewing challenges as opportunities
Keeper Bonase is an orphan who grew up in Cape Town in SOS Children’s Village – a safe, caring, nurturing community for young people who have lost one or both parents. But when he came of age, Keeper had to leave the Village behind and face a new reality. “That was a scary feeling,” he admits. “But I had to adjust.” He struggled at first, but learned to cope by thinking of new challenges “as a chance to seize an exciting new opportunity, even if the way ahead seems unclear.”

Aged 16, he participated in the GoTeach Program, a successful youth partnership between SOS Children’s Villages and DHL that helps foster work opportunities for disadvantaged children and youth in over 40 countries. He’s now a regional ambassador for the program and works at DHL Global Forwarding as Administrator. Keeper has dedicated his life to youth empowerment and continues to offer his volunteer services to SOS Children’s Villages. “My favorite quote is: ‘Life is like a roller-coaster and a blessing. How you handle your ups and downs in life will depend on the choices you make.’ This is what life is all about – and overall, I am truly thankful for everything, each day.”

Keeper Bonase
keeper.bonase@dhl.com
bit.ly/DHLGOTEACH

“Keeping challenges as opportunities can be a very positive mindset to live our life by.”

Keeper Bonase
The allure of brick-and-mortar stores includes lively display windows, helpful staff and a bevy of goods on shelves. But there are downsides: limited opening hours, seasonal inventory and the distinct possibility of not finding what you want. The inescapable reality of a global pandemic is also forcing a radical rethink of the rules of retail in 2020. It’s a challenge – but for many, it can be a great opportunity. In the international, internet-driven marketplace, where a vast variety of merchandise is only a click away, iconic stores – from Sears to Barneys – have been hard hit. Even before the COVID-19 crisis, permanent store closures and bankruptcies seemed to be announced almost every day. In the U.S., a record 9,300 retail locations shut up shop for good in 2019, and 2020 will see more.

At the same time, online merchants marked their own milestones, achieving unparalleled sales on Black Friday, Cyber Monday, Prime Day and more in 2019. More recently, coronavirus-related health restrictions in some areas requiring temporary store closures meant that, for a while anyway, online became the only game in town. Experienced e-tailers scrambled to meet demand, while omnichannel companies shifted resources to serve their online businesses – and the ones who didn’t have a strong online channel got worried.

The outcome has been what McKinsey calls a “seismic shift in digital engagement.” In an April 2020 report, the firm said physical distancing rules in many markets had resulted in higher consumption of online media and significantly accelerated e-commerce. New audiences – many rural or older – were introduced to e-shopping, delivery and click-and-collect for items such as groceries. McKinsey predicts these novel habits may well outlast a return to customary trading.

In the U.S., App Annie reported that grocery app downloads had reached record highs. Walmart Grocery downloads, for example, increased by more than 460% in April as compared with January. Other delivery apps, such as Instacart and Shipt, have seen their daily downloads surge by 218% and 124% respectively. The big winner of the COVID-19 situation is online grocery, which will see its penetration expand. In the report “The Impact of COVID-19 on Online Grocery,” Fabric states: “The online share of grocery sales will approach and could even exceed 10% this year, four years sooner than previously forecasted.”

“A company’s locality and history matter less now than before,” says Brian Lee, Senior Principal, Research at business research and advisory company Gartner L2. “What’s most important to the consumer is convenience, price and service.” Yet the blame for what some have dubbed the “retail apocalypse” does not lie solely at the feet of e-commerce, and the pandemic has only pushed it into fast forward. As economist Austan Goolsbee writes in The New York Times, “The broad forces hitting retail are more a lesson in economics than in the power of disruptive technology.” This consumer culture evolution is part tech-driven, part generational – aspects that are intricately connected. Now it’s being accelerated by the COVID-19 crisis at an unprecedented pace.

Stores haven’t changed much in the past couple of decades, but their customers have. Through various factors, the act of shopping is being redefined. Shoppers who can’t remember a world without the internet are driving trends. Influencers and virtual friends trade in Instagram posts, Facebook marketplaces, TikTok, Depop stores or YouTube channels. We are seeing strong momentum in social commerce, and emerging TV channels, such as NBCUniversal, entering shoppable TV.

These consumers want socially aware companies that speak their language and value charitable giving, activism and more thoughtful, sustainable consumerism.

**Second time around**

In a recent report on sustainability in the U.K., research firm GlobalData found that more than 90% of consumers believe retailers should be acting sustainably – and almost 80% think that retailers are

$2.5 BILLION
The estimated U.S. market for rental clothing by 2023

93.5
The percentage of U.K. consumers who agree that it is retailers’ responsibility to act sustainably
not doing enough to address issues around sustainability and climate change.

"More sustainable and ethical options are growing in popularity, including dedicated retailers, slow fashion and resale apps," suggests GlobalData analyst Emily Sailer. "Clothing retailers could capitalize on this trend by launching rental services, as well as online second-hand marketplaces."

The clothing rental business could reach $2.5 billion by 2023 in the U.S. alone, says GlobalData. Startups like ThredUP and Rent the Runway led the charge, but some traditional retailers are muscling in. Lifestyle chain Urban Outfitters and its affiliates participate in the monthly Nuuly clothing subscription service. Even department store Nordstrom has launched a second-hand business. See You Tomorrow stocked with returned items.

The online resale business is also exploding. Companies such as Rebag, RealReal, Backmarket and Vestiaire Collective are riding the wave of consumer concerns around sustainability — and with the crisis ongoing, we can expect to see more conscientious buyers when it comes to spending. By the end of April, Vestiaire Collective had raised $64.2 million to grow its luxury resale marketplace in response to investor interest in "Good for the planet, good for the wallet" models. According to the 2019 study "Luxury Global Consumer Insight" by Boston Consulting Group (BCG) and Atagamma, luxury resale is a booming market, expected to grow by 12% each year to reach $36 billion by 2021.

And while the 2020 pandemic hit all sectors of retail, some resellers saw an influx of new waves from lockdown spring cleaning. Rental and resale's moderate price points appeal to those newly on a budget, and businesses already have in-house cleaning systems. Retail locations of rental services, however, were hit hard; Rent the Runway closed all its brick-and-mortar shops in four U.S. cities in March.

From venture to adventure
Where digital and heritage brands alike can excel is in the realm of experience. It's likely that, as commerce gradually emerges from months of global lockdowns and restrictions, customers will be sated with the virtual and hungry for the tangible. At the same time, retail locations must manage crowd sizes as well as expectations; buyers may be eager but cautious.

Who tops the experience game? "Nike is probably leading the way regarding brands that are really pushing that experimental, consumer journey, combined with a mix of digital and physical experiences," says Patrick Kelleher, global Chief Development Officer, DHL supply chain.

In its New York and Miami flagship stores, the Nike+ "Trail Zones have been giving customers the choice to put Nike shoes to the test – kicking balls with soccer cleats or wearing basketball shoes on in-store courts. On the luxury side, London-based Matchesfashion.com has been reimagining retail with a boutique that’s a hotspot for culture and commerce — broadcasting exclusive in-store experiences via podcasts and streamed videos, and offering specialized virtual services with apps and social shopping.

And shoppers visiting The Journey – the Toronto concept store from streetwear brand Casey Goodie – can walk through video and audio installations of Arctic conditions, including actual snow and — for really cool customers — a room lowered to -12° C. The next generation of experiential shopping, however, will be digital-first. The pandemic has shown that companies need new ways to connect to consumers. They will have to make creative choices in the face of the digital reality that is here to stay.

Reinventing stores
It could be the end of stores as we know them, Kelleher believes. "Large stores may become warehouses; the small stores may have zero inventory, stores could be a showroom, a delivery warehouse, a restaurant, and a pop-up market all in one," he predicts, envisioning a hodgepodge of retail locations into a practical mix of showrooms and storerooms.

In recent weeks we have seen announcements from U.S. supermarkets Whole Foods Market, HyVee and Kroger, as well as fashion designer Konda and Scott’s chain, about reconverting retail locations into fulfillment centers. U.S. bakery Panera Bread converted its bakery-café business to sell groceries, and H-E-B’s selling prepared meals from its restaurant. We are moving from omnichannel to omnisupply.

For retail, adapt or die may be the motto of the coming years, and it’s a slogan that’s been put to a sharp test of a test in 2020. Agile companies who have adapted, learned and thrived during these challenging months will be ahead of the game for years to come.

Rather than investing in untested new market incursions that may deplete capital, companies can sell directly to consumers online and deliver from regional warehouses — bypassing distributors, real estate and property taxes.

"It’s about a mindshift change," says Kelleher, "and recognizing the importance of this growing sales channel and this new way of reaching consumers at the top level. The ongoing impact of COVID-19 has shown that the online channel is even more significant than we already thought and that it’s here to stay."

Susanne Stein and Nabil Malouli

BOUTIQUE BUY:
London-based Matchesfashion.com has been reimagining retail.

CUSTOMER CONNECTION: Online retail is here to stay.

3 QUESTIONS FOR...

1. The changing consumer culture may be tough for traditional retailers to tackle. How would you convince them to see an opportunity rather than a threat?

Companies that do not adapt to changing customer requirements are doomed to fail. What made companies successful in the past is not what will make them successful now, or in the future. A mindset/strategy evolution is key. Traditional retailers need to ask themselves: Who are their customers and what do they require? Not all customers want the same things. Companies may have had more power in the past, but we live in times where the end consumer has the power. There is still a place for traditional retailers who evolve to suit customer requirements. Omnichannel is key, as many customers like to combine omni- and offline shopping.

2. How can multichannel and omnichannel approaches to retailing meet the needs of contemporary customers and even exceed their expectations?

It’s about delighting customers by anticipating their wishes. The store is increasingly a place where the customer can experience the product regardless of whether they purchase it there or not. Omnichannel is about providing the flexibility – for example, buying clothes I want to try in my shopping basket, booking a fitting room online and then actually going to a physical store to try the merchandise. Maybe I would also have a smart mirror that can recommend complementary garments or accessories to go with what I will be trying on. Ideally, I could do the checkout right in the fitting room and decide if I want to take the merchandise with me directly or have it shipped to my home. Omnichannel is about combining all the options relating to convenience and the brand experience to suit my personal needs. We see in surveys that what customers most value is personalization combined with convenience.

3. How can logistics help fuel the next generation of retail?

At a share of about 20%, online is already an important portion of retail. Logistics are a key component of online sales and possibly one of the few areas where the end consumers have direct touchpoints with logistics companies. From that perspective, the logistics company also represents the brand and influences the experience the end consumer has with the brand. A study from Maptack showed that more than 80% of consumers perceive delivery as part of their online shopping experience, highlighting how important it is for a brand to partner with the right logistics provider. On the other hand, the logistics linked to online sales are more expensive – especially in the area of fashion, where return rates are higher than 50% and many customers order multiple sizes of an item with the intention of returning some of them. Shipping to homes, return shipping and the quick management of returned goods back into inventory is expensive and poses a big challenge, as customers often expect free delivery and returns. Having the right logistics partner is key for brands to ensure great service, quality and brand perception for their end consumers. The right logistics partner can support fast and efficient inventory management and ensure as little as possible obsolescence of inventory. Logistics is no longer a support function, it’s a critical competitive advantage for any company.

Mirella Muller
President, eRetail & Fashion Sector/Global eCommerce, DHL
mirella.muller@dhl.com

Photo: Cat Garcia; Ifeelstock/Alamy/mauritius images; DHL

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BOUTIQUE BUY:
London-based Matchesfashion.com has been reimagining retail.

CUSTOMER CONNECTION: Online retail is here to stay.
DELIVERING CARGO AT HYPersonic SPEED

Could hypersonic transport become a reality in future? Co-imagined by Canadian inventor Charles Bombardier and designer Drew Blair, the BlueEdge Mach 8-10 Hypersonic Freighter is a concept plane whose speed would revolutionize cargo transport. Named for its ability to fly right on the edge of space, the BlueEdge was presented as part of the International Civil Aviation Organization’s (ICAO) annual innovation contest. Conceptualized to use hydrogen as a green fuel source, the aircraft would carry approximately the same load as a B757 cargo plane and fly at an altitude of 125,000 feet (38,100 meters) at Mach 10, transporting its payload (or 220 passengers) from the U.K. to Australia in 90 minutes.

bit.ly/BlueEdgeMach

Illustrations: IOAircraft

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$200-250 MILLION
Potential price of a BlueEdge Mach 8-10

45 MINUTES
The flying time from Tokyo to San Francisco when accelerating at 35,000-40,000 feet (11,000-12,000 meters)

10,000+
Flight range in miles (16,000 kilometers)
SOLUTIONS

Christopher Weeks, Director for Humanitarian Affairs, DPDHL Group, describes working on the front lines on Disaster Response Teams around the world, and how the “pretty resilient” human spirit helps us pull through.

I t’s nearly 20 years since I started working in the humanitarian field and, during that time, I have found myself in some challenging situations all over the world. My job is to help get relief goods into disaster-affected countries following natural events such as earthquakes and cyclones. I can call on some of the 750 DHL employee volunteers who are all trained and equipped to help to “decongest” airports. This means helping to prevent the bottleneck that can happen due to the surge in cargo and relief workers all trying to get into the same airport. The operation usually lasts for two to three weeks, and up to 30 volunteers will usually be involved in receiving, organizing and reloading relief cargo for NGOs and U.N. agencies.

There are three teams now, based in countries around Dubai, Panama and Singapore, with volunteers coming from every business unit. These teams are headed up by three outstanding leaders — Gilberto Castro, Paul Dowling and Carl Schellhaut — who apply the DRT (Disaster Response Team) model in their region. While the help we give is mostly airport related, and experienced airside staff are crucial, we also need general logistics, warehouse and support staff. So a good mix of experts from all DHL divisions, plus advocacy from our global headquarters where we have Kathrin Mohr, who has decades of experience in project management at this level, is ideal for this operation.

The first time we were deployed as a Disaster Response Team was to Sri Lanka following the tsunami in 2004. We had been working on the plan for a year — and didn’t have to wait long to test the model. Thirty-five volunteers from Dubai worked at Colombo International Airport for three weeks, unloading, storing and reloading 6,000 tons of donated goods from 135 unscheduled cargo flights. While we had issues and it didn’t all go smoothly, we worked with the airlines, army, airport authorities, U.N., NGOs and ministries to keep the airport open so the aid could flow. The model worked, and the DRT was born.

Since the tsunami, the DRT has been deployed 40 times to over 20 countries, from Chile to Indonesia to Mozambique, following earthquakes, floods and cyclones. I remember arriving at Islamabad with Paul Dowling (longstanding Middle East DRT Manager) one wet, windy Saturday morning to find the airport awash with water, food, clothes and other aid items. We were despairing at the amount of work to do, but one of the local volunteers recruited a gang of 25 laborers from his village and set them to work clearing up and creating order from chaos. The airport was literally strewn with abandoned pallets of aid. Within two or three days we had the situation under control and managed to turn it into an efficient air hub. It taught me a lesson that I teach to the others: If you get in fast and know what to do, the deployment will be much easier than arriving late and having to “catch up.”

During my time in the humanitarian response business, I have seen disaster and tragedy close up and more frequently than many others. While natural events will continue to occur, poorly led and equipped responses are not necessary in this day and age. By learning from past events and training teams on what to expect and how to respond, we can reduce the negative impact and help people recover more quickly. Sometimes you feel despair when you see the tragic consequences of disasters on already poor communities with fragile government structures, but you can only do so much. I remember hitching a ride back from Kashmir in a German army helicopter and having a 10-year-old girl thrust into my arms to look after during the flight. She had lost her parents in the earthquake and was going to a new life in Islamabad. Her hair smelled of wood smoke, she wasn’t very clean, she had a number painted on her forehead for identification, and she was clearly terrified at the noise, strangers and shaking on the 40-minute flight. Upon arrival, I handed her over to the authorities: a new life in the city and her over to the authorities: a new life in the city and institutions until old enough to survive on her own. One thing I’ve learnt on this journey is that there are three stages of a disaster. First off, you’re thrust into this new universe, where everything looks broken, desperate and chaotic. Your senses are dealing with so much new information, so many new situations, people and dynamics. However, after some time, usually four to five days, a “new normal” starts to emerge, which I call stage two. You operate within this new setup for a couple of weeks, but it’s no longer brand new and becomes tolerable, and life gradually improves. Then one day stage three starts. This is when you suddenly feel you are on the down slope out of the disaster. Something positive will happen that is the trigger for a return to normality. I usually measure the news headlines. When the media is moving on to other issues, you can probably begin to think about “normal life” again. It’s certainly panning out like this in the COVID-19 crisis.

Luckily, the human spirit is pretty resilient, and most people get through the disaster if they haven’t been physically struck by it. Endurance athletes will tell you that mental strength and preparation are the keys to success — and, in disaster scenarios, survival. While adversity is a contest to some people, who pride themselves in coping and making the most of a situation, for most it’s something we just have to get through. Taking it a day at a time and not thinking too far ahead works for me. I was also told to focus on the things you can change, not the immovable objects, which also helps. And usually, in the end, if you put your mind to it and find like-minded souls to help you, success/survival is achievable.

People often ask me why I chose this field of work, and I think there are three main reasons. First, out of interest. I studied development economics and am fascinated by how countries can pull themselves out of poverty by good governance and by following certain economic models or doctrines. Unfortunately, corruption often gets in the way and disasters can seriously limit growth. Second, out of professional pride. I want to apply first-world, private sector logistics expertise to a chaotic situation and quickly improve the outcome. Humanitarians do a great job but tend to operate in a silo, so our non-interventionist role at the airport can really help them. Lastly, I love helping people. That’s why I joined this small but growing courier service back in 1980 in London. As with all successful ventures, it comes down to the people at the top giving us the funding, support and authority to get on with the job. I’m forever grateful to the CEOs over the years for having the trust in us to carry the DPDHL brand into the humanitarian world, to help people afflicted by natural disasters.

Chris Weeks
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“By learning from past events and training teams on what to expect and how to respond, we can reduce the negative impact and help people recover more quickly.”

Chris Weeks
The coronavirus pandemic has been an unprecedented shock for global supply chains. How are they responding?

The coronavirus pandemic has triggered much more than a health crisis. The pandemic has also had far-reaching effects on almost every part of the global economy. Companies have faced significant financial and operational challenges as they strive to keep producing through the crisis.

It has been a busy year for Tobias Larsson, CEO, DHL. Resilience360, the cloud-based platform that helps companies to visualize, track and protect their business operations. Organizations in multiple sectors worldwide use the platform as a core element of their risk management, business continuity planning and crisis response activities.

Larsson sums up the impact of the pandemic succinctly: “We are seeing disruption like nothing before,” he says. “First, you have a situation where companies need to protect their people from a potentially life-threatening disease. Then you have an issue with production and supply capacity, because businesses are being forced to shut down if they don’t produce essential equipment. And in addition, you have huge demand changes. Some sectors, such as automotive, have seen demand collapse, while businesses supplying products that aid the fight against the virus have seen it increase by as much as 800%.”

All those difficulties are compounded by the global reach of the crisis. “We have seen a number of major natural and man-made disasters over the last decade – from the earthquake in Japan in 2011 to the flooding in Thailand later the same year – which hit the technology sector particularly hard,” says Larsson. “But they were local or regional events that often had global effects.”

Today, he notes, demand and supply are being hit in almost every region. That makes it much more difficult for companies to execute their existing resilience strategies, which often rely on the ability of many logistics networks to respond, says Larsson. “In every other crisis, we say that suppliers are the critical link,” he says. “If they can produce, you can always find a way to deliver.”

This year, however, logistics links have been under unprecedented pressure. The collapse in air travel removed up to half the world’s normal air cargo capacity from the market, since much material moves in the bellies of passenger flights. Port closures and labor shortages slowed the movement of ocean freight. Trucking companies struggled to find drivers, and to overcome border delays and the closure of normal routes.

Even as operators and governments take action to improve flows and reopen key routes, returning services to normal will take some time. “Lots of important assets, from vessels to shipping containers, were stranded in the wrong place,” says Larsson. “Now operators need to try and restore a balance.”

Logistics feel the strain

Smart logistics strategies are a critical part of many organizations’ response to disruptive events. The world’s transportation networks have proved extremely adaptable in previous crises, with carriers moving assets, altering routes and rapidly adjusting capacity to meet changing demand.

But the impact of COVID-19 has overwhelmed the ability of many logistics networks to respond, says Larsson. “In every other crisis, we say that suppliers are the critical link,” he says. “If they can produce, you can always find a way to deliver.”

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Uncharted waters
How have different organizations coped with this extraordinary combination of challenges? At the outset of the crisis, says Larsson, all businesses had one thing in common: They weren’t fully prepared. “This is absolutely a black swan event,” he notes. “Nobody could economically have put in place all the measures they might need to handle disruption on this scale.”

As a consequence, the pandemic has not just been a test of existing business continuity plans, but of a company’s ability to think and act on its feet. "Nobody could have planned for this particular crisis, but the most successful companies are those that had planned for other kinds of crisis," says Larsson. "There are things that are common to an effective response in every crisis – like getting a task force together quickly; ensuring they can communicate effectively and have access to the right information to make decisions; ensuring they can move resources quickly and get funds to the parts of the business that need them. It really helps if you have done this before, if your people are trained in crisis response and have rehearsed these situations.”

On the ground, an unprecedented situation calls for innovative solutions. “We’ve seen examples all over the world of companies doing things they have never had to do before, and very quickly,” says Larsson. “Whether that is reconfiguring production lines so workers can operate at a safe distance from one another, or even retooling to make a completely different kind of product.”

Companies have been creative in finding solutions to their logistics challenges, too, says Larsson, whether that means teaming up with other firms to share the cost of an air charter, or switching to new routes and new transport modes. The Resilience360 team, meanwhile, has developed its own offerings to meet the needs of the crisis. “We are creating new analytics for our customers so they can track the direct impact of the changing situation on their supply networks,” he says. “Whether that’s local rules governing which business activities are permitted, or the status of critical routes and supply chain nodes.”

The companies that benefit most from that approach, he adds, are those that have already built detailed maps of their networks, allowing them to monitor potential impact on the operations of second- and third-tier suppliers. Being better prepared has enabled some companies to avoid costs in the high double-digit or even triple-digit millions of euros.

The road to recovery
As governments around the world gradually began to lift virus-related restrictions, companies turned their attention to the post-crisis world. While the recovery phase of the crisis is unfolding at a slower, less breathless pace, it still involves plenty of uncertainty. Medical researchers still don’t know when effective treatments or vaccines will be available. Health authorities don’t know whether severe social restrictions will be needed to combat subsequent waves of infections. And businesses don’t yet understand the long-term impact of the crisis on consumer behavior or economic activity.

Consultants at McKinsey & Company are warning businesses that they need to prepare for multiple post-crisis scenarios, ranging from a relatively quick, V-shaped uptick in demand to a prolonged downturn. And the precise shape of the next normal will be region- and industry-specific. Some of the changes in customer behavior since the start of the crisis may turn out to be permanent.

Even if they enjoy healthy levels of demand, companies may not be able to operate their future supply chains in the same way. Despite their own best efforts and the availability of large-scale state support in many regions, not every company will have the financial strength to weather the current storm. "Our customers are preparing for an increase in the number of their supplier experiencing financial difficulties over the coming months,” says Larsson. "So they are ramping up their supplier monitoring activities and looking closely at financial results and other signs of distress, such as media reports of workers being laid off.”

Organizations will be closely scrutinizing the overall resilience of their supply chains, too, with companies rethinking everything from the size and distribution of finished goods inventories to their exposure to specific suppliers, customers or industry segments. “In such uncertain times,” Larsson concludes, “nobody wants too many of their eggs in one basket, especially if that basket is far away in another part of the world.”

Jonathan Ward

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One of the world’s leading logistics experts gives his assessment of how the coronavirus pandemic has impacted the interconnected world of demand and supply.

Professor Richard Wilding has spent a long and illustrious career talking about the vital importance of supply chains. Sometimes he can be a voice shouting in the wilderness, particularly where the general public is concerned. “It’s as though some people think goods magically appear on supermarket shelves,” he says. “Now, because of the coronavirus, they realize there’s a lot of science, technology and people behind that magic.”

Wilding is recognized as one of the world’s leading logistics and supply chain gurus, so — with panic-buying stripping the shelves in some countries — his thought leadership has been much in demand on TV and radio during the pandemic. Currently Professor of Supply Chain Strategy at Cranfield University in the U.K., he admits to falling into academia “by accident” after spending a number of years in industry. Academic life, however, must be in his blood; he learned to walk in the corridors of the physics department at Sheffield University, where his father was studying for a PhD. “As a toddler, I’d push a little truck full of building blocks up and down,” he says. “I suppose that was my first experience of logistics.”

It’s a subject that has endlessly fascinated him. “One of my early roles was running a brick production facility,” he remembers. “I did everything. I had to arrange to get materials out of the ground, then process them, make the product and then ship it, so I was deeply embedded in every aspect of the supply chain. Now my goal is to turn knowledge into action by getting companies to think through all issues concerning their own supply chains. I inspire supply chain leaders to innovate.”

With COVID-19 still disrupting lives and businesses, his expertise has never been more essential. “What we’re dealing with is unprecedented,” he says.

What kind of supply disruptions are we seeing due to the pandemic?

For example, shipping containers are in the wrong place. One analogy would be a supermarket that has all its trolleys by the door. The problem is that, when the customers have used those trolleys, they leave them at the outer reaches of the car park — so you need to have a system to bring them back. That’s what’s happened with shipping containers. They’ve been left in different locations across the world. Then there are potential issues with warehousing that could impact the extended supply chain. Warehouses are filling up because their outflows have reduced. This means that, when cargo arrives at port, potentially warehouses can’t take it because they’re full, so the ports fill up with lots of containers. This then could mean cargo boats can’t unload, so these are sitting out in the ocean waiting to come in. It’s an illustration that this is a complex, interconnected system.

Have supply chains coped better or worse than expected?

It depends. I’d argue that those organizations that have been hit by significant disruption in the past have planned proactively and been able to deal with things more effectively. They’re continually running stress test scenarios and, as a result, have very good supply chain transparency and monitoring. In short, supply chain resilience has become part of their business culture.

Will current supply chains be able to return to normal quickly, post coronavirus pandemic?

It will take a while for supply chains to relaunch because we’ve had a massive shock to the system. There are those problems with containers and warehouses that I mentioned, for instance — although I think certain ones will be able to resurface themselves relatively quickly. There will be other issues, too. Demand for home delivery has rocketed, for example, but I would argue that the majority of supermarkets are losing money on it. That stands to reason, because if they’re only charging a few pounds for home delivery, it’ll destroy their margins. So the big challenge retailers will have to face is reflecting on the costs they incur while serving their customers, and understanding how the supply chain interacts with their overall finances.

What changes will companies make when designing their supply chains, post coronavirus pandemic?

I think we’ll see some big changes, such as procurement of resilience rather than cost. That might include looking for near-shoring opportunities and asking if they really need to buy products from the furthest corners of the world. And can they use additive manufacturing/3D-printing technology positioned close to the market so there’s less chance of disruption? These types of things are happening anyway, but the coronavirus crisis will accelerate it. Society will have to adapt, too. For example, if a company can work out a way to make its supply chain more resilient, but does so using more automation and fewer people, then that has big implications for employment.

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A s the corona crisis gripped the world and sent people into lockdown, they were nevertheless determined not to remain isolated. They reached in unprecedented numbers for digital tools to keep communication open. Intrigued by this phenomenon, we’ve translated it back into print and online media to bring you The debate. This new section aims to present interesting viewpoints about current developments from people in the know, people at the forefront of their field. They may agree, they may disagree – but in voicing their opinions they will engage in thoughtful, compelling dialogue.

To kick off this series, we invited Dr. Kirstie McIntyre, Director, Global Sustainability Operations, HP Inc., and Monika Schaller, Executive Vice President, Corporate Communications, Sustainability & Brand, Deutsche Post DHL Group, to present their thoughts about climate change in what many have termed the “new normal” – our everyday reality once the COVID-19 pandemic has abated.

Dr. Kirstie McIntyre: Even though some might argue that, due to the deep recession caused by the COVID-19 pandemic, the most pressing need is to keep economies going, preserve jobs and support industries in whichever ways possible, I do believe there is no turning back where climate action is concerned. On the contrary – I see this crisis as something that will be propelling us forward. At HP Inc., for example, we offer multiple life cycles for a product – new, refreshed and refurbished. As the crisis hit, we suddenly saw an unprecedented demand for refurbished laptops and computers – in fact, we sold out! Where the acceptance of refurbished products was previously a very gradual process, users have now made the switch from looking at computers to looking at computing power, thus enabling us to take a big leap forward in terms of a circular economy.

Our Instant Ink service for subscription cartridges that get delivered just in time has also had an absolute boom, with deliveries to millions of home offices during lockdown.

Our company believes that sustainability is a powerful force for innovation. This belief is a driving factor across many aspects of our business, from product and service design through to new business models around new technologies such as 3D printing and supply chain digitization. It has also been a turning point for 3D printing and I believe we will continue to see a lot of growth here in future, including a move toward more local manufacturing and distribution, at least for a growing number of parts. HP Inc. has set itself bold sustainability goals, intended to drive progress across our entire value chain. These encompass a 30% reduction in greenhouse gas emissions and using 30% post-consumer plastic in our products by the end of 2025 – and we’re on track to achieve both.

While governments have set environmental targets ranging from the Paris Agreement to the recent EU Green Deal, I do believe it’s increasingly up to private industry to lead the way and pivot to a more sustainable future.

So, as we move forward to an eventual end to the crisis, and eventually also out of the economic fallout from COVID-19, it’s up to corporations to blaze the trail and ensure climate change action remains firmly in focus.

For us at HP Inc: a key growth area is device as a service (DaaS), with HP leasing the products to customers and managing supply, repair and returns, thus enabling businesses to focus on operating expenses rather than adding capital expenditure to their balance sheet – something I believe procurement departments need to focus on much more.

Dr. Kirstie McIntyre is Global Director for HP Inc.’s sustainability operations and an early pioneer in green supply chains. Holding a doctorate in engineering, she today leads a team of experts around the world and is lead of HP Inc.’s circular economy program, helping to steer products, operations and services toward a full circular economy model.

Monika Schaller: Climate change is an enormous challenge to humanity. It’s here to stay and in the past years, more and more people all over the world have recognized that we need to act. Still, it’s understandable that we’ve adopted a short-term “damage control“ mentality since the world was more or less ambushed by COVID-19. But as we gradually emerge from this first phase of the pandemic (at least in Germany and a number of other countries), there’s increased focus on the task of building more resilient societies and economies over the long term, and climate protection is an urgent priority in these efforts.

In late April, Deutsche Post DHL Group (DPDHL Group) and 67 other German companies across all sectors signed a letter urging the German government to include ambitious climate action in its response to the corona crisis. We believe that stimulus measures should promote long-term economic resilience, and that any such measures must include climate protection. There has never been a larger, more comprehensive appeal for climate action by the private sector in Germany.

Many of the signatories are major international corporations who, like DPDHL Group, have long since integrated climate protection into their business strategy worldwide. These companies are not going to use the crisis as an excuse to ease up on climate; they were committed to climate protection before corona, and they will remain committed after corona. At DPDHL Group, for example, we’ve been working toward our target of zero-emissions logistics since 2017. Nobody asked us to do this. We’re doing it because we, like other leading companies, consider sustainability good business and a vital responsibility.

I don’t believe climate protection and sustainability will fade from view – because ultimately, this is about thinking long term and succeeding long term. And in today’s interconnected world, companies succeed long term by investing not only in their people and products, as they always have, but also in the health of the ecosystems, communities and economies in which they operate. At DPDHL Group, our sustainability programs span environment, economy and society, because all of these aspects need to be healthy if we want our business to thrive.

This is the reality today: In the globalized world, the factors that determine success are interrelated. Opportunities are borderless, and so are threats. The corona crisis has provided an urgent reminder that the great, borderless challenges of our time – whether climate or public health – call for knowledge sharing and collaboration across borders. And it has drawn attention to the fact that we need to be building resilience and promoting sustainability on all fronts.

Monika Schaller was appointed Executive Vice President, Corporate Communications, Sustainability & Brand at Deutsche Post DHL Group in July 2019. Her previous experience includes leading roles worldwide at Deutsche Bank, Goldman Sachs, Citigroup Corporate Communications, Bloomberg and CA Investment Bank. She has a degree in Business Administration from The University of Vienna.
CRISIS MANAGEMENT – REMAIN IN CONTROL!

SVEN GADE

Based in Fort Lauderdale, Florida, Sven Gade is a leadership coach, workshop facilitator and public speaker. He holds a master’s degree in Mathematics from the University of Hamburg, Germany, and earned his designation of Professional Certified Coach (PCC) from the International Coach Federation (ICF). As the founder of LeaderTrip Coaching®, Inc., Sven Gade supports his clients to develop exceptional teams to drive necessary change and to successfully achieve ambitious goals.

The COVID-19 pandemic has brought a lot of change and uncertainty. It has caused stress in multiple ways. Some people are worried about their health, others are anxious about their professional future and possible financial problems. Some struggle to get organized in the isolation of their home office, about their professional future and possible financial problems. As the founder of LeaderTrip Coaching®, Inc., Sven Gade supports his clients to develop exceptional teams to drive necessary change and to successfully achieve ambitious goals.

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Thinking matters

Whenever an event occurs, our brain first determines whether it is friendly or unfriendly, a reward or a threat. We experience thousands of thoughts every day. They trigger our pleasant or unpleasant emotions. Many of us are largely unconscious of the influence our thinking has on us, minute by minute, hour by hour. Pleasant emotions tend to broaden and build our abilities to achieve our goals. They help us to see more options and respond more creatively. We all know, for instance, how uplifting it is to receive positive feedback. Conversely, unpleasant emotions tend to narrow and limit our ability to perform at our best. Any hostile conversations you have had will most probably have illustrated that. Undoubtedly, our emotions shape the decisions we make, they influence our behavior. Ultimately they determine, positively or negatively, the quality of our work and productivity.

Research has resulted in a wide number of accessible strategies that can readily be used to improve our resilience. Unfortunately, we don’t practice them often enough. We struggle to demonstrate them intentionally and consistently. Here are four essential resilience strategies. They will work both during the crisis and after it.

Know yourself

Take just three to five minutes at the end of your day to think about yourself. Write down everything that comes to mind on any topic you choose to raise your self-awareness. How did you allocate your time? How did you show up as a leader? What caused stress for you? Which emotions did you notice? How did you react? What do you want to improve? Keep your pen moving. Don’t worry about spelling or grammar, get all your thoughts down on paper. Read your notes the next day, repeat the exercise and change the questions as you like. Analyze your data and learn about your “triggers” of unpleasant emotions. Some of them are in your control, such as too much bad news, or anything related to insufficient time management. Other triggers you need to accept. Nevertheless, the better you know them, the better you’ll control your response. Look-alike for those things that bring joy to your life and fill you with positivity. Spend time with your loved ones, walk in nature, indulge your hobby. These are energy boosters, use them deliberately to light up your day!

Understand others

We are not good listeners! Too often we’re not paying attention to the other person. Our thoughts are floating around, but are not focused on the conversation. At other times, we don’t try to understand the other person – we are just waiting for the next-best opportunity to interrupt and share our side of their story. Make an attempt to listen empathetically to the people you talk to. Allow this little break to process what you have heard. Pay attention to the body language, try to recognize the other person’s feelings, play back the message that you received and avoid wrong conclusions. Be amazed about the depth that your dialogues reach, even if they only last a few minutes. I practiced this high level of listening with a group of experienced leaders before the coronavirus outbreak. They openly admitted that this is not how they interact with their teams. During the crisis, their ability to listen with empathy became an effective leadership tool, helping them to keep people engaged at work in a fast-changing environment.

Inspiré performance

Honest and open feedback is a gift! Unfortunately, it is one that isn’t made too often. We shy away from giving constructive feedback; it is uncomfortable and can cause undesired reactions. Even top executives come up with excuses: “I don’t have time to do it,” or “I wasn’t in the right mood for it.” Their next-best alternative is “drive-by feedback”; a quick and unspecific hit followed by an immediate escape. It leaves the recipient puzzled or even humiliated. Seriously, does that motivate anybody to do things differently? Think about it. Your feedback should encourage the other person to change a behavior, in the best interest of that person – and most likely yours as well! You’d better make this a positive experience! Spend a few minutes to plan your approach. Keep in mind that difficult emotions prevent your people from performing to the best of their abilities. A superficial review of their work only adds to the stress. People look for constructive support to find a better way of working. Understand their situation and enable personal growth!

Make things happen

Teams exist to produce results! Many factors define the success of a team, handling conflicts constructively being one of them. Controversial topics need an open discussion in which everybody tries, without bias, to see the other party’s perspective. But what story do we tell ourselves in those moments? If it is “I am right, and they are wrong,” the exchange has almost no chance of working out well. How often do we see colleagues across departments fighting with one another? They seem to forget that they are part of the same organization, which needs to stand united in order to win in a competitive marketplace. Recently, leadership teams came together to define their approach of dealing with the upcoming pandemic. Team members favored different solutions as their understanding of risk varied. They were able to reach consensus after some of them recognized and admitted that their original idea was not the best. True collaboration needs relationships that work, not individual gains!

The resilient leader

Emotions are part of our human nature; they constantly come and go like ebb and flow. By tuning in to ourselves we can raise our understanding of how we think and feel. It allows us to control our response to emotions as opposed to being controlled by them. Our behavior is not part of our personality, we can learn it and make it more productive. Emotions will always be part of our professional and private lives and they can be demonstrated intelligently. Every single one of us has an impact on everyone we interact with, day in and day out. Resilient leaders know the influence they have on others. They create positive ripple effects that define the success of their teams. In times of crisis, resilient leaders are needed more than ever. You want to be one of them? It is entirely in your hands!

Illustrations: Nina Tiefenbach for bit.ly/SvenGade
PUTTING CLIMATE CHANGE ON THE CURRICULUM

Sally Brooks, Executive Principal of Fulham Cross Academy Trust in London, is an eduCCate Global Climate Change Teacher, helping students and staff to better understand the issues and become part of the solution.

In my years as a religious studies teacher I loved to travel and explore in my time off, and I came to understand that we have to take a stance on climate change if we are to avoid catastrophe. It’s no use worrying about education funding or exam results if we don’t have a sustainable world.

My bolt-from-the-blue moment was a trip last year to a 5,000-pupil primary school in Dubai, where every teacher had completed a climate change curriculum course. One reason I was selected to go was that Fulham Cross Academy Trust, an amalgamation of two local secondary schools, had already tried such eco-aware initiatives as making our school blazers from recycled plastic bottles.

Since becoming principal of the trust, I’d also been thinking about ways to galvanize our two schools, to provide a common purpose. Meeting the teachers and children in Dubai, where learning about climate change had been integrated into core subjects, was inspirational. They shared their ideas and fabulous lesson plans with us, and talking to them changed the way I behave, particularly with regard to food waste and recycling (of my children’s clothes, for example).

I suppose it was ironic that we went to Dubai to talk about climate change (as carbon offset for my flight, I donated €45 for tree planting), but I returned to London energized and determined to enroll more staff into the U.N.-accredited eduCCate Global program, which is putting climate change teachers into schools across the world. A U.K.-based, not-for-profit organization, eduCCate Global provides free e-courses on climate change and green economy, and is a partner of the U.N.’s CC:Learn initiative, which began in 2019. The teachers’ program involves 30 hours of high-level training, with modules on issues such as children and climate change, cities, and gender and environment.

Despite the current global COVID-19 crisis, all our trust’s staff members are doing the course and will complete it by September. As for the pupils, at present we’re approaching climate change through the existing curriculum, but from September will run a course specifically focused on the subject. We are set to be the first Platinum Award eduCCate Global schools in the world.

Fulham Cross also initiates practical projects in our borough, asking Tesco supermarket, for example, to raise funds for two small composters to help recycle food waste from our school kitchens. Our pupils are mostly more aware of climate issues than their parents and are now enthusiastically pushing them to change their practices.

My new role is time-consuming, but its challenges are worthwhile. Apart from responding to climate change now, many pupils will be working in the green economy in a few years’ time, and we need to equip them for that.

As told to GP Newington

FACT: More than 225,000 educators worldwide have completed eduCCate Global courses since the organization’s foundation in April 2019

The number of countries where eduCCate Global now operates

40+

The number of hours of training required to become an accredited eduCCate Global Climate Change Teacher

30
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