



INNOVATION TRENDS OBSERVATORY

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GENERALE**

INNOVATION TRENDS OBSERVATORY

2020 EDITION

The COVID-19 crisis has been a catalyst for accelerating trends in digital adoption by our customers and new ways of working for businesses. The Innovation Trends Observatory, launched in March 2020 by the Group Innovation Division, has enabled us to decode and follow up on trends in our markets thanks to the contributions of our experts all over the world. They shared their insights and views on new and emerging trends in real estate, insurance, mobility, asset management, open banking, open innovation, data, new leadership models, banking products, private banking, investment approaches, the future of banking, and the key role of digital and technology to build a sustainable future with green finance. Discover these inspiring editions!

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CUSTOMER EXPERIENCE AND DIGITAL USAGES, NEW WAYS OF WORKING, AND THE COMPETITIVE LANDSCAPE

- APRIL 2020

CUSTOMER EXPERIENCE & DIGITAL USAGES


Globally, we are seeing the expected short-term impacts of the crisis, such as a decrease in cash and check usage, lower payment volumes (-30 % for bank cards, -20 % for contactless). Similarly, we are seeing the expected increase in digital usage (especially around finance, gaming, education, business or fitness apps).

The crisis confirms the preeminence of mobile over other digital channels (+10 % to 30 % vs 2019 in the second wave of countries impacted by the virus), including for business purposes (around +100 % of hours spent on business apps across the infected countries, vs 2019), probably paving the path to more assertive mobile-first strategies, including for professionals and corporates. As the lockdown progressively eases in China, **we will get an indication of digital channel usage in the post-crisis new normal** .


Through the crisis, the scope of services that are acceptable through digital by a majority of customers will broaden rapidly. We are already seeing the normalisation of digital channels for applications previously considered complex, such as primary, secondary and higher education, consultations with medical specialists or meetings of Board of Directors. The extension of this normalisation to complex financial needs is only one step further: discussing sophisticated investment strategies remotely with a banker, or mortgage requirements with a remote mortgage advisor. The winners will be the ones able to revisit their offers and services combining the best of digital player experiences.



NEW WAYS OF WORKING

It is too early to tell how much of it will stick, but employees around the world are becoming used to working remotely, with some increases in productivity due to reduced friction such as from transportation. Fewer projects than could have been anticipated are being put on hold due to remote working. Usage of remote working tools, such as Slack, Trello and others, is soaring. Video conferencing platforms, such as Zoom, Webex, Google Meet or Skype, have a usage 20 times higher than usual. Zoom went from 10 million daily meeting participants in December 2019 to 200 million during the ongoing pandemic, while Skype daily usage went up 70 %. Similarly, Microsoft Teams had added 12 million users by March 19, the equivalent of Slack's userbase, and is still continuing its growth with the addition of Microsoft Teams for consumers. **Capital One has announced it is maintaining its Summer class of 1,000 interns and that they will all be doing their internship remotely** .

COMPETITIVE LANDSCAPE

Disruptive business models, such as platforms will likely emerge strongly post-crisis. Amazon, Microsoft, and Deliveroo are at the heart of the customer online behaviors throughout the crisis. They are also instrumental in addressing issues related to the crisis, e.g., Amazon delivering virus testing kits and Deliveroo delivering groceries. To better serve their clients, they could choose to embed part of the financial services value chain. We see early indications of this trend, with Facebook opening a hub to support SMEs through the crisis and Microsoft announcing their strategic partnership with the aggregator Plaid to turn Excel into a personal and professional financial planning tool. States and the ECB could choose to accelerate disruptive monetary policies building on the early work of crypto-assets and stablecoins in Europe, combined with a push of companies such as **SWIFT to enable instant and frictionless payments from account-to-account anywhere in the world** , with an end-to-end solution that combines international and domestic capabilities.

In a context of increasing digital demand and business model adjustments, we are likely to see a consolidation of the competitive landscape through partnerships or acquisition leading to powerful “fintech survivors”, and “reinforced incumbents”. On one hand, we are observing a relative “flight to quality”, especially on deposits (in the US, the Federal

Reserve observed a monthly gain of + 5.6 % in deposits in large banks over the last month, i.e. a 6-fold increase vs 2019, compared to a monthly gain of + 1.7% in small banks over the same period). However, incumbents are impacted by the low digitalisation of SME credit to process a large number of applications in the context of recent government schemes. On the other hand, Fintechs and Big Techs are demonstrating agility and adaptability to the new customer needs arising from confinement (e.g., LYDIA, the French peer-to-peer payment app, rapidly shifted towards payments of teleconsultations and closed restaurants, Facebook opened a SME portal to support their digital on-boarding and Alliance Autocar shifted its model within days to address the emerging “VIP safe mobility” market).



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
SOCIETE GENERALE AFRICA, TRUST IN A LOW TOUCH ECONOMY, DATA PRIVACY AND NEW PARADIGM


- APRIL 2020





TRUST IN A LOW TOUCH ECONOMY


The transition period between containment and full operation will take time (up to 12-18 months according to the BCG). During this transition, trust will be a key factor to limit both the length and depth of the economic downturn. **The Board of Innovation issued an excellent analysis and report on low touch economy** . **Attachment courtesy of Ilya Polyakov** . Businesses will therefore need to implement confidence-building measures, by leveraging digital:


Businesses and consumers have essentially been given a massive opportunity to try out and get accustomed to digital shopping, working and collaboration. McKinsey's **consumer-sentiment analysis**  reveals new consumer groups trying out digital products and services for the first time and some of those rapid changes in shopping habits are expected to stay (e.g.: more than 55 % of Chinese consumers are likely to permanently buy more groceries online).

Banking is no exception to this trend and according to **J.D. Power** , nearly one-third (31 %) of new account openings are now executed through a bank website or mobile app in the US, up from 22 % in 2019.


The social distancing imperative combined with consumers' fear of contamination risks in physical locations urge organizations to make their content, products, services, and representatives available remotely to keep on servicing their customers. Beyond accessibility and a feeling for “safety”, organizations have the opportunity to “provide meaningful advice and guidance that's critical to the financial well-being of consumers, especially during times of economic uncertainty” (Ryan Caldwell, founder and CEO of **MX** ) and develop proximity with their customers.

As some of its agent locations are temporarily closed, Western Union recently announced the launch of a new channel – **Digital Location**  – to enable customers in Austria, Belgium, Italy, Portugal and Oman to connect in multiple languages via a voice or video call to a money transfer personal-service assistant who will help them through the transaction.

Uber (whose overall business has been cut by more than 50 % by the virus) has launched a **'work hub'** , which lists down jobs for its US-based drivers in companies like Domino's, Shipt, or CareGuide (and Uber won't be earning any commission for the people that it refers to these companies).

Still there is more to enabling trust than just digital. Organizations will also have to demonstrate to the general public that they include collective concerns in the definition of their purpose. To that extent, COVID-19 is **a litmus test for stakeholder capitalism** .

DATA PRIVACY NEW PARADIGM

Leveraging personal data could strongly contribute to handling the sanitary crisis. It can help to understand virus propagation, **check the respect of confinement policies** , model deconfinement scenarios or monitor post-confinement contamination. Yet, the sense of urgency must not make us drop all cybersecurity and privacy key principles:

Individual consent & RGPD compliance: As Stephane Richard, Orange's CEO, stated in a tribune in Le Monde, that citizens should remain free to choose whether to use contact tracking applications or not.

Privacy enhancing technologies (PET): These methods enable the use of personal data while minimizing the possibility to link information to any particular individual. [Apple and Google are working together to create a contact tracing application](#) relying on such technologies. The French National Institute for Research in Computer Science and Automation (INRIA) is also working on a [similar application](#).

Ethical AI: A strong increase in the use of AI will put it under an even higher level of scrutiny. Businesses should consider all aspect of a responsible AI, [from transparent data acquisition to ensuring unbiased, fair and explainable models](#) (McKinsey).

No compromise on cybersecurity: The explosion of popularity of some online services caused by the sanitary crisis is highlighting the prime importance of not taking shortcuts with security. For example, Zoom has made choices to improve the user experience at the expense of security and is [now under critique](#).

In a post-crisis world, the lessons learnt might be leveraged to rip other benefits. For example, the World Economic Forum has already published, pre-crisis, a [white paper](#) about the benefits financial services could draw from PET enabled data sharing.

THE IMPACT OF THE COVID CRISIS IN AFRICA

By Valérie Noëlle KODJO DIOP, head of innovation of Societe Generale Africa

In African economies, cash is king because of the huge importance of the informal sector that does not have adequate access to the banking system and a high rate of unbanked people. Experience shows that the only way to re intermediate the cash in circulation out of the banking system is through **mobile money** “momo” with a 47 % penetration in Sub-Saharan African countries. We believe that COVID could be a catalyst for high adoption of mobile money as a new lifestyle for basic usages such as transfers and billing, but also nano credit, savings, micro insurance and health.

Governments also see an opportunity using mobile money as an enabler to fuel and support poor people, boost financial inclusion and also as a tool to stem the Covid-19 spread. Strong incentives have been put in place to push people to go digital and to lower barriers. Indeed, most African governments, central banks (BCEAO, BEAC, BoG, CBK, etc.) and telcos have implemented a fee waiver to reduce the physical exchange of currency. Some companies have even announced that all P2P transactions would be free. In some countries, like Kenya, the presidents have issued directives to explore ways of deepening mobile money usage to reduce the risk of spreading the virus through physical handling of cash. And this pushed interoperability solutions cross countries, in a broader scope than simply payment.

Lastly, this crisis will **foster the uptake of e/s-commerce** as mobility is restricted. The construction of a network including new merchants accepting digital payment (including mobile money) will be needed and with Telcos lowering fees on data bundles «to help teleworkers» and fee waiver on merchant payments, one can expect commerce on social platforms like WhatsApp, Facebook, etc. (which is already a major trend on the continent) to gain even more momentum.

Last but not least, the excellent [internet analyst Mary Meeker has issued her new report](#). A must read for all Geeks!

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SOCIETE GENERALE CHINA, ACCELERATION OF SMARTBOTS, DIGITAL TAKE ON COMMERCIAL AND CORPORATES

- MAY2020

THE ACCELERATION OF CONVERSATIONAL TECHNOLOGIES TO INTERACT WITH CUSTOMERS


As social distancing has become the only effective way to limit the COVID19 pandemic, customers turn to their phones to interact with their bank, through digital self-care services or contact centers. Finalta's remote banking pulse check shows that mobile app users grew for 90 % of banks worldwide and that in Western Europe there has been a 25 % increase in calls. Without appropriate 24/7 self-care services and conversational channels automation, call growth leads to a degraded customer experience due to waiting time increase, which have more than tripled in March for Western European banks according to Finalta.

If [Chatbots or Smart Speakers](#) like Google Home or Alexa, sometimes led to disappointments until now, 2020 could be a new start as noticed by the [World Economic Forum](#). Significant progress in Natural Language Processing - NLP - has been made lately by AI research departments of major technological actors, such as Google & [Facebook](#); using billions

of human exchanges samples to train them. Half of voice assistant owners in UK increased their use of the technology, according to a new report by voice tech agency Voxly Digital and 40 % plan to up their use of the tech even after the lockdown end.

Therefore, the current NLP systems allow to analyze sentiments and integrate customer's context, to better detect intentions and provide the most appropriate response, on a seamless and instantaneous way as far as possible. They also become a vehicle for inclusion.

Nevertheless, 3 major challenges must be met to achieve truly optimal conversational agents:

- Their capacity to be adapted quickly to handle new urgent customer needs or services. As the UK-based **TSB Bank**  did recently to provide in 5 days a Smart Agent chatbot, to give customers' access to certain relief measures amid the pandemic;
- Their ability to respond in a truly relevant way to the complex requests expressed by clients, using a rigorous structuring of knowledge while addressing transparency, bias, fairness, and data privacy; at the risk of causing mistrust in case of incoherent results;
- Their integration in a holistic approach, including a clear digital journey, to identify and reactively rebound on each datapoint left by the customer, such as a comment or a webpage visit, and to proactively propose a personalized service to anticipate most predictable queries.

DIGITAL WILL TAKE ON A PROMINENT ROLE IN COMMERCIAL AND CORPORATE BANKING POST-CRISIS RECOVERY


(Sources: Mckinsey & Company, Oliver Wyman, Forrester)

The COVID-19 pandemic is impacting commercial and corporate banks. A report by Oliver Wyman forecasts an average ROE of 4-5 % over 2020-22 across the industry in base case, with lower quartile banks close to zero, and with 'legacy full-service banks' most heavily impacted. Digital can help banks and their clients on three levels:

Client service digitalisation: Critical focus areas in the immediate term are cash management, trade finance and loan origination (in particular to implement government-backed schemes). Previously paper based processes are rapidly being shifted to digital, and electronic documents are being accepted where physical meetings would previously have been required. While this is proving a challenge for traditional banks, hindered by legacy systems and processes, some promising examples are emerging (i) UBS is using machine learning algorithms to automatically scan and process applications and shorten the time to release of funds and (ii) a group of UK Fintechs, including digital lending platform **Trade Ledger**, digital SME credit scoring platform **Wiserfunding**, trade credit insurance provider **Nimbla**, and remote client onboarding platform **NorthRow**, have formed a taskforce to help SMEs get access to government-backed loans. The platform includes risk assessment, KYC and insurance capabilities — and can support term loans, invoice finance, and asset finance with funds deployed within days.



Considering the quick adoption of digital channels by banks and clients, we expect a sustained shift to digital channels for SMEs and large corporates in the future. Incumbents who most quickly manage to put in place good quality digital customer journeys are to gain a competitive advantage as each market comes out of the crisis. Rather than building in-house, it may be faster to partner with Fintechs (e.g. **UK digital business lender Iwoca**, who is able to provide decisions within a few minutes and transfers funds electronically within one business day thanks to the use of AI and APIs from Amazon, eBay, PayPal, Sage Pay, and other sources).

Risk management: Applications of AI are being used to proactively scan client portfolios amid the coronavirus crisis, identify risk areas, assess the creditworthiness of individual businesses and reach out to clients with potential solutions. As an example, **UK digital lending platform OakNorth**  has developed a "COVID vulnerability rating." It enables to scan their loan books and categorize borrowers by how severe an impact the pandemic will be on them.

Cost reduction: can be achieved in the short- to medium-term through (i) **Client service transformation** - Client-facing

activities like sales and coverage currently account for ~50 % of costs. Yet corporate client satisfaction with bank providers is typically low. Beyond clients' digital self-care options, RM productivity can be materially enhanced through applications of AI and automation of front-office processes. There is significant potential to both take share by improving the client experience and take out costs through moving to more technology-driven service models and layering of overlapping and duplicative sales, coverage and client service organisations and (ii) **Back-end automation** – Significant amounts of work from loan origination to servicing, remains manual, and can be automated through digital technologies.

THE IMPACT OF THE CRISIS IN CHINA

By Socrate Lao, Ronan Vuilleumard, Minghua Dai, Societe Generale China Digital & Innovation Team

Many companies including SG China have chosen **Work From Home** + minimum onsite at the beginning of pandemic to ensure the business continuity. VPN and Remote Virtual Desktop are the main solutions used to ensure this setup. **WeChat, Zoom, Tencent Meeting, Microsoft teams, Biz Conf Video**, etc. are also chosen to ensure the daily internal and external communication. Banking regulators encourage each bank to keep a reasonable onsite/WFH ratio and secure the financial market stability. WeChat is also used as one of the official communication channels for the notice publishing, and feedbacks collection from each bank.

As for SG China, we have also benefited from our newly setup Corporate WeChat Platform to timely publish our official communication and to demonstrate how close we are standing together with our clients. More importantly, **Trading From Home and Sales From Home** were put on the table for discussion internally and together with the regulator. It was the 1sttime TFH and SFH became possible in our real daily activities with a certain specific trading activities, products, and portfolios.

The government of different regions have put in place a **QR code** to indicate **the health condition** of the person with the cooperation with high tech companies like Alibaba, Tencent, etc. The health QR code colors is calculated automatically based on the past 14 days trajectory, close contact of the person using Big Data technology from different sources, i.e.: main mobile operators in China, Airline/Train reservation systems, Inter-city road in/exit records, etc. People can only go outside if the QR code is Green. **QR Code** is also used in **public transportation**, scanned for each passenger when taking the bus or metro. A single code is assigned to each train of the metro, or bus to ensure the close contact could be identified in case any contamination observed.

By the end of March 2020, online shopping customers in China reached about 710 Million, +16.4 % increase compared to end of 2019. Most delivery platforms have deployed a **contactless delivery service**. Customers and delivery drivers can use the app to determine where to drop off the order. When paying for their order, customers can select “contactless delivery” and then determine where the order should be dropped off.

The online reservation is widely used by different sectors to avoid the unnecessary crowd gathering due to a long queue. Retail banking branches, hospitals, government departments, etc. have enhanced their Mobile APP by adding an online reservation function to be able to visualize the current onsite volume and make an appointment in advance.

As of today, the COVID-19 situation is getting **under control** in China. When we looked back, it is the most widely impacting pandemic since 2nd World War but on the other side, it also tested our digital capacity prepared in the past years, it forced us to change the traditional way that we worked, it opened another door to let a lot of companies, regulators to think differently. Our daily life as well as our daily work is getting changed. PBOC (Central Bank of China) is also announcing to speed up the implementation of the Digital Currency/Electronic Payment to replace the existing RMB cash in China.

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THE FUTURE OF WORK, CRISIS IMPACT ON INVESTMENTS, AND THE IMPACT ON SOCIETE GENERALE SECURITIES SERVICES

- JUNE 2020



THE FUTURE OF WORK

Imagine it's October. Things are back to a new normal, meeting face to face and travel is possible. However, the experience of being a customer, employee, citizen, human has definitively changed and even the long-term implications of the pandemic on the future of work are still unknown, it is clear that this crisis has accelerated workforce transformation and increased the digital demand.

(i) What are the implications in terms of working spaces (ii) what about the importance of digital skills training in the short term?

(i) A revolution is underway in working space and mentalities, can we bet on the disappearance of the open space and the flex office? Density and conflict of uses generate nuisance, noise and now health risks. Do these concepts really translate the reality of openness, agility, cooperation or finally did they take the opposite view of what they should represent? It is necessary to rethink this whole value chain, to give new meaning to the collaborative, (The Culture Code de Daniel Coyle) erase the constraints of travel and enhance proximity (the city of 15 minutes by Carlos Moreno) to reduce the risks associated with a single workplace, see each other less but better. In a study of Chaire Workplace Management ESSEC published recently, 32 % of the panelists want more health and safety, 69 % want to continue teleworking, this is in line with the decisions taken by certain companies from the most traditional (PSA) to "distributed companies", who adopt full remote (GitLab, Buffer, Platform.sh), and 18% claim more autonomy. This new possible organization would become more responsible and inclusive for people with disabilities if they can't move around.

(ii) It's a fact, in all bad times, training budget is a big target on the wall for traditional companies. There is going to be a digital talent war. Progressive companies are going to continue to invest aggressively in their best people and also hiring in next generation of digital talent. Learning is not only for young or educated people, everyone and of course during this crisis, can go to YouTube to get hundreds of courses from the best universities in the world and the best professors. With Coursera and [Udacity](#), people don't need to go to Stanford to get a great job at Microsoft, Bank of America. What value does the diploma represent? Beyond that, it is necessary to improve the capacity of employees to reskill themselves permanently, more easily and cheaper according to customer needs to avoid the risk of skills becoming quickly outdated. That's why **empowerment and growth** mindset are key words. In the long term, turnover essential to oxygenate organization will occur naturally since trained employees will more easily find outside jobs.

Employees are the most important asset companies have to help serve today's customers, while adapting to tomorrow's customer-satisfying processes and technologies, so adopt the LLL, listen, link, lead.

CRISIS IMPACT ON INVESTMENTS

It remains very uncertain how the Covid crisis will impact venture capital market over time. After a significant slowdown, funding activity seems to be picking up, especially on specific areas such as healthtech and future of work, outlining future investment trends.

According to FT Partners, there was a total of \$1.45 trillion in dry powder (ie. cash reserves) across the private equity and venture capital industry at the end of 2019. This total represents twice the amount from five years prior. VC firms are mostly using this amount to help their portfolio companies get through the crisis.

Over the short to medium term, the Covid crisis will likely result on a decline in venture capital deal volume, with investors being very cautious spending their capital and spending less time evaluating new deals (cf. infra). At the same time, valuations will probably decrease for the next year. Where the pricing will move on late stage companies is quite unclear and some VC firms are looking at more early stage deals and doing more references on the founders.

According to [Rosenblatt Securities](#), a US brokerage company, Fintech unicorns valuations could contract by 15 % on average, as downturn could wipe off \$76 billion of their market value. Down rounds, ie. at valuations significantly below

those of prior funding rounds, already exists with UK digital bank Monzo facing a 40 % valuation drop in its latest fundraising. It is important to note that tensions on neobank valuations existed before the pandemic.

As pre-covid, investors could favour B2B models which are more resilient through subscriptions revenues, and platform players with embedded data and analytics. On the Fintech market, the Covid-19 pandemic could speed up horizontal mergers and lead to consolidation as acquisition become cheaper.

Before the virus emerged, VC teams would spend two thirds of their time looking for new opportunities and the rest of the time supporting existing portfolio companies. The Covid crisis reversed this situation. During early months of the pandemic, **VC funds assessed the crisis impact on their companies** and helped them optimize their cash flow. In support of their portfolio, some investors are using dry powder to make **follow-on investments**.

The Covid crisis also created an **adjustment on investment funnel**. According to [Chausson Finance](#), most European investors are now re-opening their deal flows and are willing to receive new investment opportunities. Regarding 1st meetings with management teams, half of them have **changed their way of assessing required qualities of founders**, favoring resilience, agility and ability to monitor. The Covid crisis also impacted **the way VC funds assess the structure of a startup's unit economics** during the deep dive phase. Half of them declare refocusing on profitability, cash burn and growth. To cover investment risk, investors also adapt term-sheet conditions, including milestone-based tranching equity rounds, discount on convertible notes and ratchet.

A VIEW FROM SOCIETE GENERALE SECURITIES SERVICES

By Yvan Mirochnikoff and Laurent Marochini

The recent health crisis has highlighted for Societe Generale Securities Services (SGSS) and its clients the need to strengthen their resilience while adapting to a new economic and social environment. As a whole, SGSS' clients (Banks, Insurance companies, Asset managers, Investment companies) have had to adapt more quickly than expected to a new environment by taking greater advantage of new technologies. In order to continue to ensure business continuity and maintain profitability, SGSS has strengthened its presence with its clients, both commercially and operationally, and to seek greater efficiency while working remotely.

In fact, we continue to rethink customer relations through simplified paths and more ergonomic interfaces, accessible anywhere and at any time, while gradually reorganising the value chains, optimising its end-to-end processes and seeking the most efficient solution for each link in the chain. This crisis has thus accelerated the concept of **ATAWAD (“Any Time Any Where Any Device”)** by offering dematerialization solutions such as:

- The electronic signature to avoid travel and make interactions more fluid, in complete legality and security. The obstacles to deployment have thus been removed in geographical areas.
- The digitisation of boards of directors and our meetings, through our remote applications and our new communication tools such as Skype or Livestorm. In this context, Voice to text tools are also being tested to improve our efficiency and for better risk management.
- Remote on-boarding for increased efficiency and customer satisfaction. This track is to be developed to improve the customer experience.

The support of our customers has been the key word to facilitate their remote work and our tools, such as [Gallery](#), have demonstrated their interest in this new world.

This digitization, not having always involved emerging technologies, has nevertheless found its usefulness to our customers and for a company focused on a sustainable future. This is the positive feedback we have received from clients after these few weeks spent at a distance, during which they consider that SGSS “did the job!” as shown in the post-COVID survey of a sample of 76 major SGSS clients.

5

HOW BIG TECH BECAME BIGGER DURING THE CRISIS, THE RISE OF MOBILITY AS A SERVICE AND IMPACT ON CONSTRUCTION AND WORKPLACES

- JULY 2020

HOW BIG TECH LEVERAGED ON COVID-19 TO BE PART OF THE “SOLUTION”?

The COVID-19 crisis certainly did prove how dependent consumers and companies are on Big Tech players, whether it be their logistics, infrastructure, or various platforms. If we take a look back on the past 4 month's announcements, we also notice that most of their recent initiatives constantly leveraged the context by focusing on either a “reputational” effort to position themselves as indispensable AND responsible players, or simply well-planned commercial opportunism:



Responsible in their core business: Early on, announcements have fascinated many, showcasing how Google, Facebook or even Microsoft would be temporarily closing down offices and going fully remote – and some, such as **Facebook**, clearly decided to set this as a standard for the future. Even in cases where their core business couldn't allow them to go remote, such as **Amazon**, communications always focused on responsibility towards their employees and consumers. While staffing (+175,000 employees) to answer the surge in demand, Amazon stated in their earning's announcements that they would invest their full Q2 earnings (**close to \$4 billion**) in protecting its employees at the cost of decreasing business. This effort however has not always been implemented with the same care everywhere: Amazon France got pinned for its lack of respect for social distancing rules in its warehouses and condemned to a daily fine.

Opportunistically providing financial services: In parallel, the crisis clearly didn't slow down Big Tech's interest in providing financial services, especially to those most impacted: merchants and SMEs. There's been an early flourishing in direct financial support as countries locked down (cumulatively **estimated at \$681.5M in relief funds and advertising credits** by Google, Facebook, Amazon, Microsoft and Apple, in an effort to keep some of their most fragile customers afloat). Now that the economy is slowly picking up in some parts of the world, this previous trend seems to have found a more opportunistic approach of “supporting Small Business”: leveraging on direly needed loans. In India, for example, Google announced that it will now **provide millions of loans in India to Google Pay merchants**, noticeably to “help small businesses in the country steer through the pandemic.” Quite similarly, Amazon has announced a series of SMBs credit lines, **with Goldman Sachs in the US** (rumored with a fixed annual interest rate of 6.99 % to 20.99 %!), or with **ING in Germany**.

Filling a gap in the healthcare space: Finally, both the GAFAM and BATX alike have strongly focused on positioning themselves as directly fighting the virus or supporting governments and its citizens in the process. As such, Google and Apple have been quick to act and surprised many in collaborating to provide means on how to **slow down & identify contamination chains**.

In Asia, Alibaba has gone further by providing online clinic services (driving over **100,000 consultations a day**), as well as a **drug delivery service for people**. **Tencent** has even opened up its supercomputing facility to help researchers find a cure for the virus. And it is undoubtedly in the healthcare space that the boldest moves in terms of diversification have been announced by the BATX: Alipay's parent company Ant Financial (which officially renamed itself as “Ant Technology”), Baidu or even Xiaomi – mostly focused on Hardware products so far – all plan to **enter the Chinese mutual aid industry** targeting **450 million users in the industry** within 5 years.

The COVID-19 crisis certainly did prove how much Big Tech players are changing our lives and economies across the globe. And it comes as no surprise that most of these recent initiatives have a common denominator: they illustrate a push to accelerate the promotion of public Cloud as a key ingredient to strengthen the resilience of our societies in a post-COVID world. Tencent expects to see “accelerated cloud services and enterprise software adoption from offline industries and public sectors over the longer term.” Putting their money where their mouth is, they plan to **invest \$70 billion in ‘new infrastructure’** – a term used by Beijing to encompass areas of technology such as artificial intelligence, next-generation mobile networks known as 5G and infrastructure around transportation such as electric cars. Providing the infrastructure to accommodate the low touch imperative of a world that is becoming «digital by default» is undoubtedly the next battlefield for these tech giants.



THE IMPACT OF THE COVID-19 CRISIS ON MOBILITY

Vision of ALD Automotive and Societe Generale Assurances

As a first and brutal impact, lockdown and social distancing measures due to the sanitary crisis have **slowed down mobility and therefore the entire automotive industry's sales**. Population lockdown, auto dealers shutdowns, restrictions on transportation as well as financial concerns regarding the crisis have led to a dramatic decline in sales. On the French market for instance, registration of new vehicles in April 2020 was 89 % lower than the records of April 2019.

With the gradual reopening of the economies, **constructors are putting efforts into addressing the crisis and fostering a commercial revival**, backed by governments and fiscal incentives. Some segments of the industry are expected to suffer lasting backlashes: for example, many companies suspended or **postponed their work around autonomous vehicles** such as Waymo (Google), Lyft, Argo AI and General Motors. It will most certainly delay projects but is not to mark the end of autonomous programs that remains part of R&D strategies.

Reversely, the crisis **accelerated initiatives** that were already shaking the industry pre-COVID, particularly the **ecological transition**. In France for example, the recovery plan not only offers financial triggers for consumers to buy greener vehicles thus increasing the demand, but it also asks for constructors to increase production of electric and hybrid vehicles. Consequently, Renault's production of green vehicles is expected to triple by 2022.

Besides, with local distributors being shut down, **auto makers had to rethink distribution channels to boost sales and pave the way for more flexible and digital distribution**, another pre-existing trend that got strongly accelerated. In that matter, Tesla is already proposing "touchless delivery", offering the possibility to get possession of a car without any contact between the buyer and the delivery employee by using the Tesla phone app. In the same vein, Volvo launched in April an online ordering service called "Stay Home Store" including lease options. The change was already anticipated by OEMs like Polestar and Lynk & Co (part of Volvo & Geely Group), which designed a full digital customer journey, and are about to start operating in Europe without any dealer network.

As a matter of fact, **even if a return to individual car mobility is to be expected** (vs. shared solutions and public transports), **usages and customers' expectations will most surely evolve**. Since the beginning of the Covid-19 crisis, preference for buying a car has increased among younger generations, but they are also more likely to delay purchases because of affordability and economic crisis impacts. **As a result, leasing products** (and, amongst them, the ones of shorter duration and greater flexibility), **but also pay-per-use and subscription models should further develop**. Those services are distributed digitally via mobility platforms. They offer buyer experience as e-commerce leaders, including delivering and return at home. It will also appeal to the ones who, for personal taste or health concerns, are reluctant to visit car dealers and used cars parking lots.

Speaking of used cars, they could well become very sought-after assets in those platforms, for their price and the reassurance they provide in times of uncertainty and rapid changes, whether economical or technological. **Buying or renting a car, new or used, in a digital store** - or selling your old one for that matter - **will become part of the new normal**, thanks to innovative financing schemes (pay only for your real usage and return when you feel so), enhanced photo and video experience (check the scratches and organize your virtual tour from your couch), verified pedigree of your coveted vehicle and immediate credit clearance (IA-based, thanks to your favorite fintech). All of this, contactless and home delivered! **For services actors deeply linked to the automotive ecosystem (leasing companies, insurance, ...)** that means a necessary model pivot to smoothly switch from a standard approach to an individual and tailor-made model.

In addition to profound changes in the personal usage of a vehicle, **the crisis will also have strong but differentiated impacts on the mobility ecosystem and its actors**, depending on their value proposition. Today, **we can assume that, together with public transports, shared mobility actors will be the most impacted**. Prices will inevitably rise, with impacts difficult to predict on the whole ecosystem. On the other hand, new mobility actors (EAV, NVEI, e-scooter, e-bikes, ...) leading to the development of **Mobility as a Service Model**. **A big part of the answer will depend on how local government and municipalities will tackle the infrastructure challenges that are required to facilitate such a profound transition.**

WHAT IMPACT WILL THE CRISIS HAVE ON OUR WORKSPACES AND CONSTRUCTION METHODS?

Vision of Sogeprom, real estate development subsidiary of Societe Generale

The recent health crisis has not only accelerated the change that Sogeprom anticipated in terms of workspace, but also in construction methods.

If the boom in telework and the search for savings led some companies to postpone their leasing projects in order to re-adjust their specifications, the challenge today is to re-enchant the workspace, even to rethink the mission of the office space which becomes a **professional hub** by being the privileged place for social ties, the consolidation of corporate culture, collective creativity, while offering **confidential spaces**, both to promote concentration and to allow contract negotiations. For this it must be both:

- **Desirable** - by the architectural quality, the comfort and the interior atmosphere, the presence of nature, the provision of efficient and healthy working tools by an adequate treatment of the air and water, the use of self-cleaning and depolluting materials (photosynthesis, photocatalysis, ie degradation of pollutants on a surface under the action of light rays), suitable acoustic quality and the use of depolluting plants;
- **Modular** - by allowing, through the use of easily movable partitions, the adaptation of spaces to the desired uses in real time, in particular to facilitate work in project mode which requires spaces of different sizes according to the nature of the projects and stages of collaboration;
- **Service-oriented** - offering quality catering, a gym, secure 2-wheeled premises, a concierge...
- **And finally, economical**, both in the choice of equipment and of materials, the scarcity of natural resources and financial resources of companies, forcing them to reduce the consumption of buildings. **Connectivity** must be generalized to monitor buildings: measure consumption of all kinds, optimize the use of different premises, detect equipment leaks or failures, even anticipate them (predictive maintenance).

More than ever, **the level of CSR labeling of buildings** will be a pre-requisite both **for users and for investors** whose conflicting constraints (manage the optimization of space density ratios compared to new health standards, while being careful to present a positive carbon footprint) must balance each other. New types of secure workspaces will appear at the foot of buildings and coworking - the sector of which is evolving towards a certain consolidation - will retain a place in the tertiary landscape to meet the need for proximity between workplace and home.

Finally, the **development of the off-site construction method** should accelerate because it reduces construction times, noise, dust and traffic nuisance, limits the production of waste, while adapting more easily to new health constraints for construction workers.

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THE EFFECTS ON E-BUSINESS, OPEN BANKING AND FINTECH TRENDS IN CHINA, AND RESPONSIBLE INVESTING AND DIGITALISATION - AUGUST 2020

HOW FAR WILL COVID-19 BOOST E-BUSINESS?

Analysis by Group Innovation Division

The varying short-term effects of COVID-19 on e-business

It may seem commonplace to say that e-business has benefited from the sanitary crisis and there is no doubt that the coronavirus will have long-term effects on spending patterns. However, in the short term, it is untrue. International research shows that the e-commerce sector has suffered a negative impact just as the rest of the economy.

Shortly after the lockdown in many countries, on-line sales of basic necessities surged to record highs. However, they dropped significantly afterwards as consumers had piled up dry food and toiletries. The shift to on-line grocery shopping proved very significant in countries where retailers had fully fledged online sites (US, UK and even France) and quite weak in some other countries, such as Germany, where poorly prepared hard discounters account for a major part of the food market. (Source: Nielsen)



Obvious winners of the lockdown are online leisure (video streaming, e-sports and gaming) and communications (video conferencing) but not surprisingly, other sectors are suffering a dramatic downturn such as travel & tourism and sporting goods.

Two key factors have mitigated the expected benefits for e-merchants: logistics and concern. The supply chains and delivery services have been disorganized, as illustrated by the temporary closure of Amazon's logistics platforms in France. Non-discretionary spending is slowly recovering, but discretionary spending remains depressed because sales to the wealthier consumers are far below their pre-crisis levels due to their concerns for the future.

In the medium term, the recovery of e-business will strongly depend on the evolution of the sanitary situation. Whether entire regions or even countries go back to lockdown, or not, may well decide the fate of many e-merchants, not unlike brick and mortar shops.

Potential long-term effects of the pandemic

Surveys also provide a few useful hints about the significant structural changes e-business will experience when the coronavirus dies out.

Consumers have indeed developed new habits. For instance, a survey covering 15 countries (from the USA to the Far East) reveals that 1 in 5 online grocery shoppers were new comers. Among the more senior ones (aged 56 or more) they were 1 in 3 and 77 % of them intend to continue post-crisis (source: Accenture). In the USA, when the epidemic broke out, the proportion of online grocery shoppers surged from 30 to 60 % of the general population. The fraction of consumers using online banking rose from 50 to 70 % and the apparel (clothing) sector saw a dramatic increase from 13 % to a record 45 % (source: McKinsey).

A number of services were deemed to require in-person interaction, such as advisory services (not least retail banking) and health services (medical visits) and they suddenly shifted to digital. Massive online courses (MOOCs) were already starting to reshape the world of education. With the pandemic, the classroom has become virtual and digital tutoring has spiked. How could such changes not affect the future?

From now on, the engagement of newcomers to the digital economy is the new challenge for e-merchants and e-services. The expectations of clients have risen. Digital may now be seen as the norm, although new forms of "phygital" distribution, combining physical and digital, will certainly strive.

CHINA TRENDS: OPEN BANKING & FINTECH

Societe Generale China Digital & Innovation Team

Currently less impacted by Covid-19 epidemic, China begins to see the light at the end of the tunnel at its economy slowly recovers. And now that business is almost back to pre-lockdown levels, we foresee a resumption of former initiatives that had to be stopped as well as new trends emerging for the banking industry.

Political push for Open banking

Affected by the epidemic situation at home and abroad, the People's Bank of China (China Central Bank) has been recently seen promoting open banking to accelerate and encourage online processes of financial services. To help banks to navigate, the People's Bank's of China as published in February new specifications and proposed technical standards for open Banking.

This milestone, if successful, will foster the demand for the integration of banking services and the service offer of online processed, together with the overall supervision of the Chinese regulator.

Some Chinese Banks already entered the fray. Shanghai Pudong Development Bank is setting its open bank architecture around external cooperation, via its "Science and Technology Cooperation Community" and its "Joint Innovation Lab".

Chinses Banking players are transforming business models through fintech

For both China corporate and retail banking players, fintech has been empowered more significantly through heavier investments to transform their traditional business models. China Merchant Banks and Ping An Bank, two of the most active

fintech players in China banking industry have been investing significantly in the technology including AI, big data, cloud, and blockchains, to support their transformation from offline to online, from only large enterprise focused to long-tail enterprises captured for corporate banking, and from product-driven to experience-driven for their service-offerings.

For example, Ping An Bank's KYB (Know Your Business) platform is an online SME credit data loan platform mainly obtains real and valuable enterprise operating data through third-party channels and uses big data to establish mathematical models to judge enterprise qualifications, thereby making credit risk judgments.

Chinese banking players also invested more on the so-called "Banking ecosystem establishment" investing in other industries including Smart Parking, Smart Medical Care, and E-commerce. This is also related to their strategy of utilizing fintech to streamline different business scenarios to capture user's data, which could in turn help them develop customized marketing strategy to transform such "customer traffic" to the online platforms of core finance business.

LYXOR TRENDS: RESPONSIBLE INVESTING AND DIGITALISATION

Analysis from Lionel Paquin, Lyxor Chief Executive Officer

Although it avoided massive outflows, the asset management industry has seen its profitability come under heavy pressure from the crisis: at the peak of the pandemic, the markets' broad decline had an enormous impact on assets under management and therefore income. Yet the COVID crisis, which started outside the financial system and was therefore experienced but not caused by it, has not triggered the crisis of confidence or systemic risks seen in the past. Unprecedented, huge, in some ways impossible to grasp, COVID is giving management companies the opportunity and responsibility for pursuing their primary goal: helping their clients to manage their risks and build their future. It gives new urgency to the previous two underlying trends: the need for responsible finance and the growing role of digital technology.

The shift of portfolios towards responsible investing will gain pace and tackling climate change will become essential.

Through the awareness it has raised and its brutal reminder of how much we rely on the balance of natural systems, the COVID crisis directly challenges our environmental responsibility, our priorities and our socio-economic choices. Asset managers have a key role to play in the emergence of more sustainable and responsible practices: first because they direct significant capital flows through their investment policies or the products that they develop (in index management, for example, flows into ESG ETFs grew at a record rate in June, with inflows of EUR 3.7 billion, often into the strategic, stable pockets of portfolios); because of the services that they will create in the future, e.g. to measure a portfolio's "temperature" or its impact; because of the influential role they must play on companies through their voting and issuer engagement policies; and because of the commitments and causes that they will undertake as companies. ESG has really become part of the "new normal" for investment.

COVID-19 is also a powerful vector for digitalisation

In just a few days, sometimes even overnight, businesses and their clients, schools and their pupils, administrations and services, have launched their digital revolution. This movement is irreversible and asset management companies are part of it in their own way: like others, in the organisation of work, combining remote working with presence at an office that will have been given a purpose and its own added value; in client relations, which digital communication channels and exposure to data and services are continuously making more effective for everyone; and in processes – operational, investment, risk management – made more efficient and robust by the easier use of better organised data. Introduced, extended or stepped up during the crisis "because there was no choice", the use of digital is essential for asset management companies, whose fundamental role assumes the ability to mobilise knowledge and data, extract value from it, and return this to clients. Digital will not replace the men and women who work in asset management, but it will help them – in their office or elsewhere – to show their true worth.

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LEADERSHIP & CULTURE IN TIMES OF COVID-19 - OCTOBER 2020

LEADERSHIP IN TIMES OF COVID-19: IT'S EARLY BUT HERE'S WHAT WE KNOW

by Christoph Bauer, Innovation Leader at Societe Generale in Frankfurt, Germany



The novel coronavirus has introduced the most impactful change of our working lives in recent history: the normalization of the home office and mobile working. But what does that mean for leadership? And what has been the impact of all these changes? Which tools help deal with this new reality?

Let's start with leadership: I'll go out on a limb here and say it didn't change anything on the strategy level. Good leadership is good leadership, no matter the location. But on the tactical level, aka the "how to make it work", many novelties and new requirements have popped up. From setting up video calls to distributing work efficiently, digital skills and especially the availability of the right tools

played a major role in the speed of adoption. All this has changed the way teams interact and work collaboratively. From my experience: teams that were already leveraging agile principles and using task management tools had a much quicker recovery time than those that were still managed by "walking around". Micro-Management does not scale in remote setups, so trust, ownership and intrinsic motivation became the biggest drivers for successful transitions.

On the empirical side with a focus on Germany, we see lots of positive impact regarding concentration and relaxation, more time for hobbies as well as a general happiness about not having to commute to the office every day. The number of stressed German employees decreased by 29%. A third of employees have changed their view on the home office in a favorable way – only 6% say their acceptance of home office arrangements has declined. But there is also negative sentiment: German employees miss social interaction and those with families find it hard to structure their time. Half of German employees under 30 say it's hard to distinguish between work and private life. But remember: it's early and the long-term effects of isolation and lack of informal exchange will take time to be measurable.

Modern cloud-based productivity and communication tools can help reduce these negative side effects. Teams that still lack these as well as teams still working with paper-based processes faced the biggest hurdles when trying to stay productive. The most sought-after tools were (video) conferencing software with high audio and video quality as well as virtual whiteboards such as Mural, Miro or Klaxoon. Startups use these by default, but many corporates had to adjust. For events, a whole new category of tools popped up: providers such as hopin or Run The World deliver features for interactive online events such as fairs, conferences and other formerly analogue occasions. We'll see lots more activity in the realm of tools supporting remote work in the future – and we already have some clear winners.

MOROCCO: THE CHALLENGE OF NEW EMPLOYEE-CLIENT COLLECTIVE INTELLIGENCE

by Wadii Rhazi, Innovation Director, Societe Generale Morocco (SGMA)

The COVID-19 crisis has favoured not only digital acceleration at all levels, but also the reappropriation of digital tools. From collaborative tools to virtual events, efforts to adapt to social distancing constraints have resulted in a continuous innovation process, accompanied by closer relations between clients and employees.

First example: the Fête de la Musique (annual street music festival) which coincided in Morocco with the initial easing of lockdown measures. A mini digital festival was held on Facebook Live inviting clients and employees to celebrate life through song and pay musical tribute to everyone contributing to the fight against the coronavirus.

The live chat between clients and employees during the live-broadcast concerts showcased a never-before-seen level of socialisation and solidarity. A few days later, a webinar on "exiting the Covid-19 crisis thanks to innovation" was

organised for employees and clients alike. Nabil Hilali, one of Morocco's leading experts on open innovation, demonstrated for a wide audience the many opportunities offered by the crisis to rethink business models and ramp up the digital transformation. According to Mr. Hilali **"Business model innovation is the key to resolving this crisis, serving in the short term as a remedy and over the longer term as an opportunity."**

During the webinar, a committed employee also spoke about solidarity-based innovation, related to her experience doing volunteer work. The success of this event inspired the decision to set up a second webinar, this time aimed exclusively at corporate clients, with various clients sharing practical avenues for resolving the crisis through frugal innovation. In response to the restrictions arising from IT security imperatives, a work-around solution was also designed using a collaborative tool called Klaxoon.

The solution was created to supervise the roll-out of electronic payment migration in Sub-Saharan Africa, organise client surveys and tests, establish in-house collective intelligence and offer gamified training programmes. Lastly, additional collaborative innovations have proved successful, including an e-brochure tool used independently by CRMs to create electronic sales brochures personally tailored to their clients' needs. The idea was suggested by a member of staff and then developed by two internal SG entities. Yet another example is the partnership between Ecole Centrale de Casablanca and Societe Generale Morocco, involving the school's students and researchers in R&D initiatives associated with business challenges relating to the Covid-19 crisis.

DEVELOPING A RESULT-ORIENTED CULTURE TO EMPOWER TEAM MEMBERS

by the Group Innovation Division

The Group Innovation Division is a recently renewed 30-member team with diverse profiles from within and outside the bank. Whatever their seniority, the team members are required to continuously adapt to evolving business priorities at a fast pace

To maximize our team impact and also build consistency and a sense of belonging among members, we chose to co-build together our vision, shared objectives and team values and use those as a solid alignment and monitoring tool. Almost like a compass.



As a first step, the team agreed on its key cultural foundation (mission and values) and a set of shared objectives and accepted the possibility of dropping lower impact topics. As a second step, each of us was invited to associate their individual contributions to the shared objectives.

- When the association was clear, project owners formulated a Key Result (from the OKR method). For instance: Digital Sales target set per country. They contributed to achieving said Key Result autonomously or as a team with business stakeholders.
- When the association was unclear, the team commonly agreed to give up engaged actions, re-prioritizing resources towards more directly contributive objectives. At some point, this led for instance to the decision to close our Tel-Aviv innovation Lab.

Key Result achievement leads to a systematic sharing session within the Innovation team heads and among business and service units stakeholders' community (Digital Leaders) to help boost a learning culture. Quite soon, though, we also realized that building a safe (i.e. benevolent) work environment was even more crucial to help team members give-up on some of their projects.

The Covid-19 context turned this approach fully digital through tools such as Slack, Zoom, Trello and others (Teams wasn't deployed at the time). Rituals became central and even more appreciated, further accelerating the adoption of visual management methods and requiring new joiners to jump-in with no delay. Six months down the line with continuous adaptation, the empowerment culture we're building is progressively becoming understood and appreciated by the team. Immediate next steps consists in updating the Innovation team heads' shared objectives with the current banking context. All in all, such a set-up has been pivotal in developing a result-oriented culture and a sense of ownership among team members. But of course, it's a long run and there is no finish line in such a journey.



TOWARDS A FULL CUSTOMER CENTRIC AND OPEN MODEL

by **Cécile Bartenieff, COO of Global Banking and Investor Solutions**

With increasing competition from Fintechs and BigTechs, finance is no longer the preserved area of banks. We are seeing the emergence of embedded finance such as with some of the Asian models of WeChat and AntFinancial, which combine a one-stop shop for consumer payments and merchants' marketplaces at your fingertips, providing a wealth of data that could then be used to develop new business models. Of course, there are different scenarios and our focus remains to serve our clients and colleagues with responsible and innovative solutions, but here is one view of what could happen tomorrow if we were to embrace some of these embedded finance models in Europe more largely.



For **individual clients**, banks will have to position themselves even more as “**finance coaches**” whose mission will be to **help their clients optimize all financial aspects of their life**, while being socially responsible. Banking activity can be grouped into three core processes: payment, credit and investment. Winners will be those who will make finance very simple to navigate for clients, with the right level of personalization and proactivity. This intimacy with the client, as well as a seamless journey, will retain brand loyalty. And we're proud today at Societe Generale to see strong client engagement through our different channels, with 50 % digital adoption among

our 31 million clients worldwide, and with 57 % adoption and 34 average connexion per months through digital for French clients. Yet, new entrants are setting the bar and we must keep reinventing the customer experience to meet new customer needs in this increasingly digital world.

For **SME and large corporates**, we expect clients to continue to **value their bank as a partner**, able to accompany them in their growth as well as during more difficult times. To meet client expectations, banks will have to complement their traditional offer through solutions **providing environmentally and socially responsible finance**, as well as **providing an integrated digital experience**. B2B clients are working on the centralization and industrialization of their treasury processes, as well as the digitalization of their offer. They expect to have an almost real time view of all the business they do with a given bank, regardless of the country or the type of activity. Being multi banks for most of them, they will expect to operate in a fully seamless ecosystem, encompassing their banks but also the market players. It will require banks to integrate with the clients' systems, be it TMS (Treasury Management System), ERP (Enterprise Resource Planning) or trading ones. They also expect banks to move away from proprietary standards and embrace as much as possible the market standards, multi-dealer platforms and utilities, and developing mutualized solutions across banks. We are actively working on this through our API-based SG Markets platform.

Last but not least, the **key asset in this journey is our People**. As the supervisor of operations and IT, I make sure we can offer new skills for our staff, put emphasis on new roles through the organization such as UX, CX, Data Science, API developers and to implement an environment where they can thrive with Agile practices – a long term commitment!

THE FUTURE OF CONSUMER CREDIT

by **Joseph Emmanuel Trojman, Franfinance**

The health crisis has simultaneously intensified the dynamics of the consumer finance market and brought new expectations to the forefront, especially from distribution partners.

In the retail client segment, the sector is seeing a sharp uptrend at work. With more and more behaviours going digital and consumers taking back power, there is growing demand for expertise, instant gratification and a seamless experience. In such an ultra-competitive sector, increasingly converging with the payment industry, credit firms are expected to deliver an ever-shorter “**time to decision**” and “**time to cash**”.

While clients have certainly set the bar high, technological barriers have come down, making it possible to meet their expectations in tight market-timing deadlines. In fact, the Open Banking competitive ecosystem has reached maturity, encouraging rapid synergies between major financial institutions and the expanding community of fintechs. If we look at the widespread adoption of technologies, the expanding use of digital identities, PFMs, data and AI by clients, and the near-total automation of credit approval processes form the pillars that will underpin the new consumer finance experience.



For distribution partners predominantly operating their business at POS or directly in the client's home, social distancing rules have generated an additional complexity to overcome. Against this backdrop, credit institutions are tending to see their role change dramatically. Instead of merely funding sales, they are becoming more holistic providers for distributors, from the standpoint of helping them develop their business and navigate omnichannel distribution.

In both the B2C and B2B2C segments, business expertise, technological maturity and the ability to rapidly put new innovations to work are and will continue to be key differentiation drivers on the consumer finance market.

TOMORROW'S PRIVATE BANKING IN FRANCE

by Valérie Bokobza & Carole Rigattieri, Societe Generale Private Banking

The Covid-19 crisis has ramped up the use of digital media by our clients and employees, while not only reaffirming the central role of private banking institutions in client relations but also underscoring the importance of the ties between private banking advisors, portfolio managers and digital tools. The sales teams have taken the time to help our clients learn how to use the various available features, sparking an increase in the volume of digital transactions in terms of credit transfers and stock market orders (**3x more stock market orders placed in self-care mode in April/May compared to 2018/19**). Clearly, self-care has taken on a whole new dimension in the different client segments (Private Banking, Wealth Management and 29H), spanning all age brackets.

We have successfully increased our contact points thanks to our digital solutions:

- **SYNOE** offers regular access to market analyses and financial advice, with the possibility of validating each transaction and accessing a platform of experts (**22 publications sent year-to-date, 13 of which generated financial advice**);
- **6,800 clients have activated MON PATRIMOINE**, which gives clients a comprehensive view of their financial and non-financial assets, simulations on the various asset classes (solution based on asset aggregation and the Dialogue & Asset Allocation method)



New ways of interacting with our clients have been set up: videoconferencing, economic podcasts, etc. Most of our employees have been given digital tablets, and the adjustments made to our operating processes have helped keep the business up and running, with **97 % of our teams** teleworking during the initial lockdown period. Clients expressed great satisfaction with the service provided by their Private Banking branch.

RESPONSIBLE PRIVATE BANKING

Responsible Private Banking rests on **4 pillars**: reducing our own environmental footprint, providing our clients with positive and sustainable investment solutions, acting responsibly and being a driving force for societal trends.

For example, we remodelled our Boulevard Haussmann offices with the goal of meeting environmental standards and thus **cutting our water and energy bill by 70 %**.

Our asset management company, SG29, just signed the UNPRI (United Nations Principles for Responsible Investment) and has its sights set on expanding its range to include five SRI funds, with a target of **investing 30 % of AuM in SRI** over the next few months. Our philanthropy centre of expertise helped our clients **seeking a higher purpose for their wealth** to create

more than 15 foundations. Private Banking France just entered into a partnership with **Philanthro Lab**, which promotes community outreach programmes.

The current health crisis has proved that people will continue to be the main focus of attention in the coming years.

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INNOVATION & DIGITAL TO BUILD A BETTER & SUSTAINABLE FUTURE WITH GREEN FINANCE - DECEMBER 2020

WHY ENERGY TRANSITION IS REQUIRING A SPECIFIC SKILLSET, COLLABORATIVE WORK AND INNOVATION?

by Eric Bonnin, Head of Oil and Gas Industry Group and Hacina Py, Head of Export Finance at Societe Generale Corporate and Investment Banking

The world is facing climate challenge and cannot afford the same business model going forward without irreversible consequences on our planet. The question to address is then how to grant access to affordable and reliable energy to a growing population while being aligned with a sustainable environment?

The required Green Industrial Revolution is probably the biggest challenge to be addressed during this century. It also represents a tremendous business opportunity. To seize it, we need new skills, new technologies and trillions of investments.

Energy transition is impacting all sectors of activities and countries: energy producers switching from fossil fuels to low carbon activities and adapting to a much more complex client driven approach, distributors of energy which need to integrate new type of gas (Hydrogen, biogas) and intermittent renewable power generation as well as decentralized energy assets putting pressure on existing grids, consumers (industrials, transportation, buildings...) which have to change their demand patterns into greener and more efficient energy systems, financial institutions, private equity firms, public entities, sovereign wealth funds impacted through evolving regulations (Taxonomy, European Green deal, other local regulations) and new client requirements leading to a need for new services and product offerings (partnerships, off balance sheet solution, third party equity...).

New skillsets are to be developed as energy transition is complex, has local implications and impact all sectors/industries: understand newly developed business models which sometimes are disruptive and the impact on existing ones: risks of new technologies and their obsolescence, right evaluation of stranded assets, competitiveness of new energy vs fossil fuels...are all new and need to be properly evaluated with the right skillset requiring technical and market knowledge.

Collaborative work and partnerships are becoming the new norm: new technologies and new business models associated with energy transition are requiring open source data and R&D large investments. Collaborative work is needed to accelerate transformation, reduce costs associated to such developments and lastly, be an enabler for deployment at scale. Partnership across industries and with universities is a way to find viable and more innovative solutions. More and more JVs are being set up between energy players and industrials (battery gigafactories or large scale hydrogen production and newly developed industrial and mobility applications), infrastructure funds and developers (EV charging infrastructure) ...



Innovation is a prerequisite and will be key to achieve our goals: in energy production/transport/usage (decentralized generation, new applications of Hydrogen, more efficient batteries, biogas and biofuels...) as well as in new financing schemes. The challenge is to finance trillions of new capex and obviously smart financing solutions will be necessary in particular off balance sheet structures and third party equity to avoid too much impact on financial ratios and share risks. Another key milestone to achieve is how to standardize billions of investments in small scale assets (electric vehicle recharging infrastructure, heating and cooling systems, smart meters deployment...) to avoid too costly and too complex solutions. How do we finance energy efficiency which is not creating revenues but savings? How do private and public debts

or incentives need to be combined for new technologies in a ramping phase to be financeable?

To better understand all these risks and opportunities across sectors and countries, Societe Generale has decided to launch a transversal initiative across the Group to look more holistically at energy transition and its impact on the business models of our clients operating in various sectors (energy and non-energy players) and regions as well as better measure impact on our own business model.

ESG AND SUSTAINABLE FINANCE IN ASSET-BACKED PRODUCTS

by Emile Boustani, Head of ABP UK, Asset-Backed Products

The structural shift of focus to environmental, social and governance factors by both companies and investors and its extraordinary acceleration witnessed over the last twelve months has until recently been driven primarily by their integration in equity investments and bond investments, as well as renewable infrastructure projects.

Asset-backed products (understood here to include granular securitisation, fund finance and collateralised funding) have traditionally been less of a focus but are increasingly being transformed as well - with ESG and sustainable finance already well established in certain areas, first successes in others and more generally increasing recognition of the key role to be played by this sector in supporting the energy transition for example. These tools help large corporates, financial institutions and financial sponsors raise liquidity and manage risks in a way that can support their ESG agendas, and at the same time caters for investors with their respective investment strategies based on ESG integration, alignment or impact by providing appropriate investment opportunities which are complementary to equity or bond investments.



Granular securitisation or asset-backed securities (ABS), for example, have a key role to play in supporting sustainability by helping large corporates raise liquidity against trade receivables related to activities such as renewable energy, green buildings, energy efficiency, clean transportation or waste and water management. The same is true for financial institutions, where we are seeing an increasing number of transactions aiming to support the energy transition through the securitisation of energy efficient residential mortgages, electric or hybrid cars, solar panels (particularly in the US) and energy efficient renovations of homes for example. Granular securitisation also has a key role to play in the aggregation of small-scale assets related to the energy transition (such as mini grids for example) to enable fund raising on a large scale.

Capital call financing, as a form of fund finance for financial sponsors investing in companies through either private equity or private debt, increasingly integrates incentives for financial sponsors to use their position as a shareholder or lender to encourage positive change in environmental, social or governance aspects among the companies they invest in. The year 2020 has witnessed an impressive increase in relevant financings implemented and further financial sponsors intending to do so.

Collateral financing, which covers a range of different financing forms, is also increasingly being used to support ESG agendas of financial institutions and financial sponsors. Capital relief transactions, by way of example, traditionally a means of managing risk weighted assets for banks, generate balance sheet capacity for banks which is now increasingly dedicated to originate new financings with a specific focus on supporting the energy transition or positive impact finance more generally.

Overall, the year 2020 has demonstrated that asset-backed product financing is no exception in the general structural shift toward ESG and sustainable finance and has a key complementary role to play in view of the specific sectors and clients types whose ESG agendas it helps support.

DIGITAL: AN ACCELERATOR OF IMPACT FINANCE

by Olivier Houdaille, President of Lumo, the crowd funding investment platform serving the ecological transition

In a locked-down world, the use of digital is creeping into entire areas of everyday life, including the field of impact finance. It is therefore no coincidence that its acceleration is happening at the same time as its digitization.

The real objective of impact finance is to put the purpose of the project or the recipient of the funds, whoever they are, at

the center of the reflection, and then the financing or investment decision. By doing that, this finance recreates a vital and meaningful link between people and the benefits generated by the recipient of funds, services or infrastructure, of which they are often the end users. It thus makes it possible to orient society towards a desirable form to which the general public already drawn.

At **Lumo**, an online investment platform dedicated to ecological transition, we are convinced of the relevance and effectiveness of this approach.

Digital is at the heart of this innovative model and continues to grow. It brings two fundamental elements to the building of impact finance.

First of all, it operates as a vector of information, thanks to the elimination of borders, thus bringing together investors and funders with a positive pressure on transparency. And it also makes it possible to form a community around the major issues of this finance. Finally, digital contributes to putting impact finance in its own place: that of a tool, a means, rather than an objective in itself. It therefore popularized and humanized this discipline which was up until now very institutional.



In the field of savings, this is still a real disruptive practice! But the practices are not fixed. Any change is a form of disruption that will last if conditions remain stable. Partly thanks to digitization, citizens are more informed and attentive to their investment choice: security, diversification, return but also responsibility, sustainability and the common good. Lumo makes it possible to combine these objectives. Proof of this is with the 8,000 new registrants on the platform in 2020, or the enthusiasm used during the latest **“Eaux d’Ariège”** collections for hydroelectricity projects with 1 million euros collected in 55 minutes! Or the current **“Ambition 2024”**, dedicated to accelerating the development plan for solar technology, a French gem in the renewable energy sector.

Whether it is for individual clients or companies investing in impact funds or through an online impact platform such as **Lumo**, or for financial institutions to build new impact assessment models when constructing their financing offers, digital technology – a vector of information and a tool for transformation – is essential.



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