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# **EXECUTIVE SUMMARY (1/2)**

#### Shortlist of critical functions

- The financial sector will play a major role in navigating the Covid-19 crisis, not only as a contributor to GDP but also as an enabler of
  economic activity
- This report, prepared in collaboration with ASBA, shortlists critical functions provided by the financial sector, based on a top-down assessment of demand and supply under stress:
  - Defined scenarios with escalating level of stress:
    - Scenario A: Severe economic impact during two quarters, followed by "U" recovery, with backbone of economy staying intact
    - Scenario B: Deep economic recession, followed by "L" recovery, with severe disruptions due to Covid-19 impact
  - Assessed demand for critical functions considering:
    - **Inherent demand,** which is a factor of market characteristics (e.g. prevalence of cash as means of payment) and business model (e.g. reliance on long term debt to fund operations)
    - **Vulnerability of a sector to economic stress**, which is a factor of the expected decrease in revenue and the cost structure of each sector
  - Analysed supply of critical functions based on substitutability:
    - **Substitutability across entities**, which considers the number of alternatives in the market providing the function and the ease to change between them
    - **Substitutability across functions**, which assesses whether the economic benefit of a specific function can be provided by another function (e.g. credit card payments instead of cash)
- In a stressed scenario, we expect an **increase in demand** of functions related to **continuity of day-to-day activities,** and increase in vulnerability of supply of functions with **low substitutability**
- Most relevant critical functions in Latin America are cash services, retail payment services, remittances, and short term business lending
- Critical functions provided by the financial sector to banks and other financial entities, such as **securities clearing & settlement** and **wholesale payments**, also considered relevant as they enable functioning on the financial sector

# **EXECUTIVE SUMMARY (2/2)**

Policy recommendations to safeguard the provision of critical functions

- Objectives of short term policy actions to preserve the provision of critical functions include:
  - Cash services: Continue to meet elevated demand for cash, ensuring uninterrupted access and distribution
  - Payment services: Ensure uninterrupted functioning of e-payment services, reduce hurdles to access, and establish alternative to cash for redundancy and efficiency considerations
  - Remittances: Safeguard flow of funds to the underbanked
  - Short term business lending: Safeguard availability of short-term credit in the economy, support implementation of government support programs and proactively manage credit risk
  - Securities clearing & settlement: Ensure adequacy of contingency plans and sufficient liquidity in the system
  - Wholesale payments: Ensure adequacy of contingency plans and fulfilment of critical operations
- In addition to defining short term actions to safeguard financial stability, supervisors must engage in **tactical actions** for immediate contingency planning and crisis response:
  - Set-up coordinated emergency response
  - Prepare for crisis management, monitoring areas of vulnerability to prioritise supervisory attention
  - Plan & support post-crisis economic recovery
- In the **medium term**, regulatory intervention associated to the Covid crisis provides an opportunity to **promote resilience of the financial system**, **inclusion and innovation**, by taking strategic actions to:
  - Improve access to electronic payment systems and banking service
  - Provide access to lending facilities
  - Address rising credit risk
  - Promote digitalization at the client-facing front end and within the financial system's backbone

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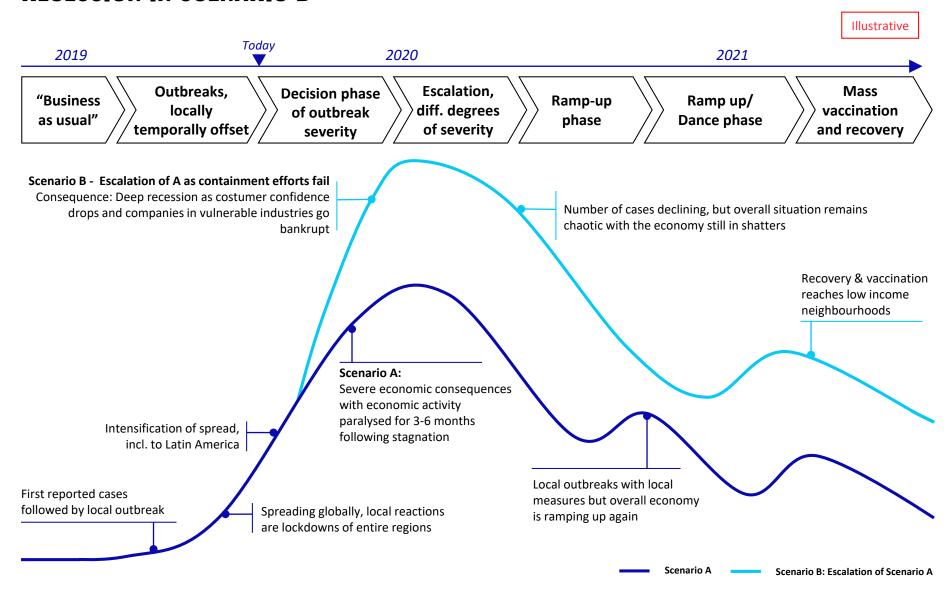
# **Approach**

Section		Approach
01	Scenario definition	<ul> <li>Defined scenarios with escalating stress</li> <li>Scenario A: Severe economic impact</li> <li>Scenario B: Deep recession with severe disruptions</li> </ul>
02	Demand for critical functions/services	<ul> <li>Assessed inherent demand for functions/ services of financial sector in business as usual conditions</li> <li>Identified vulnerability of households, businesses and public sector to stressed scenarios</li> <li>Determined "demand under stress" per critical function</li> </ul>
03	Supply of critical functions/services	<ul> <li>Assessed conditions that shape supply of critical functions, including impact of stress</li> <li>Combined vulnerability of supply with demand under stress to provide a shortlist of critical functions</li> </ul>
04	Short term recommendations for selected critical functions	<ul> <li>Defined recommendations to ensure continuity of critical functions, including supervisory crisis management actions</li> <li>Provided an overview of conditions required to ensure financial sector can supply critical functions identified, including non-financial services associated</li> </ul>

# 01

**SCENARIO DEFINITION** 

# SCENARIOS DEFINED TO ACCOUNT FOR ESCALATING STRESS, INTRODUCING DEEP RECESSION IN SCENARIO B



# SCENARIO A: SEVERE DISRUPTIONS OF PUBLIC LIFE AND THE ECONOMY, BUT CRITICAL INFRASTRUCTURE REMAINS LARGELY INTACT

**Situation:** COVID-19 is spreading rapidly, infecting thousands of residents all over the country/region and of all social classes. The measures in place to contain the pace and intensity of the spread have severe consequences on public life and the economy, fostered by consequences of COVID-19 globally. The financial situation is tense.



#### **Public Authorities**

- Quickly closing all educational institutions, non-critical businesses and public events
- Managing situation with help of Law Enforcement agencies
- Offering tailored responses, e.g. to address situation in poor neighbourhoods and informal settlements
- Establishing temporary safety networks: Support packages
   & free health care
- Adjustments of regulations regarding, e.g., insolvency, payments, credits and rent
- Austerity measures: Reductions in government expenditures



### **Economy**

- Slowdown of most industries, leading to short-time work and releases; contraction of both formal and informal sectors (loss of jobs, restrictions to hire etc.)
- Severe shortages/bottlenecks in financial sector



### **Health Care System**

- At its limits but copes due to apt measures, ensuring staff remains safe
- Help of industry with production of medical & other entities (e.g. military) increasing number of hospital beds



#### Residents

 Stay home since they are properly informed and benefit from gov. relief programs



#### Critical Infrastructure

- Remains largely intact
- Enables efficient response to crisis

Despite thousands of infections and a severe slowdown of the economy, the situation is de-escalated within a few months. Recovery is a long and arduous process but due to apt measures possible within about 2 years

# SCENARIO B: CONTAINING MEASURES FAIL LEADING TO A DEEP ECONOMIC RECESSION

**Situation:** COVID-19 is spreading rapidly and containment efforts fail. The health care system is quickly overburdened and incapable of dealing with new infections, especially as medical staff and equipment are limited. The economy collapses including critical infrastructure



#### **Public Authorities**

- Responses delayed and/or not monitored stringently
- Public officials get infected or are not willing or incapable of introducing adequate measures to – at least partially – absorb the negative externalities on its residents and the economy
- No or insufficient adjustments of regulations regarding payment, rent, insolvency etc. benefitting less well-off residents
- Government policies (economic as well as fiscal policies)
   besides other policy measures might be insufficient to foster quick economic recovery leading to prolonged phase of stress



#### **Economy**

- · Contraction of both formal and informal sector
- Goods at black markets only accessible to those financially better-off
- Solvency of financial sector under strain



## **Health Care System**

- Incapable of coping with number of infections, hospitals overcrowded with insufficient medical equipment
- Staff is partly infected
- Support from public authorities and industry is limited



#### Residents

 Distress: Residents unable to pay for loans and obligations; reacting by plundering (food/med. equipment), attacks on gov. and financial institutions



#### **Critical Infrastructure**

 Bankruptcy of companies in vulnerable sectors (e.g. utilities, providers of basic services like logistics, etc.)

Structural damage as a result of corporate bankruptcies, Sovereign default risk affecting ability to inject further stimulus in 2021

# 02

**DEMAND FOR CRITICAL FUNCTIONS AND SERVICES** 

# DEMAND FOR CRITICAL FUNCTIONS UNDER STRESSED SCENARIOS WAS ASSESSED TOP-DOWN, CONSIDERING INHERENT DEMAND AND SECTOR VULNERABILITY

# Approach followed

Assess "inherent" demand

- Define **long-list of critical functions** provided by financial sector for the analysis (detail in appendix)
- Define aggregated customer segments served by financial sector for the analysis (detail in appendix)
- Assess inherent demand of critical functions under "business as usual" ("BAU") circumstances, considering structural factors (e.g. households will have stronger demand for deposits; heavy industries for project finance)

scenarios

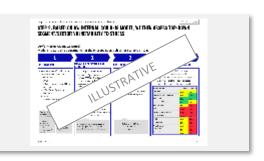
**Assess vulnerability to stress** 

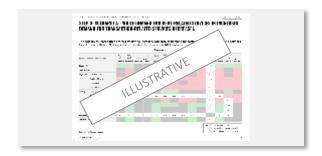
- Assess impact of COVID-19 stress per customer segment, per scenario, as follows:
- For businesses, used internal OW COVID-19 vulnerability model structure to assess delta on profit margin % at sector level
- For households, government and financial sector, used expert judgement based on scenario narrative
- Impact is classified as high/medium/low per customer segment

Conclude on level of demand "under stress"

- Combined level of inherent demand per critical function (step 1) with impact of stress scenario per customer segment (step 2)
- Applied rules and expert judgement, considering input form steps 1 and 2, and whether the functions is long-, or short- term
- Classified demand under stress as an "increase", "decrease" or "no change", both at segment and aggregate level









## Assumed total inherent demand per critical function & customer segment

Applied in both scenarios

Increasing reliance on function/service

#### 1. Businesses

Inherent
demand level
in BAU

High

High

Mid

Low

Mid

Mid

High

High

Mid

Low

												•	
Critical Fu	nctions and Services		Construction	000	Healthcare &	Manu-		Tourism &	Transport &	<b>A</b>	Q	<u></u>	3.
			& Infra.	Food Retail	Pharma	facturing	Retail	Leisure	Logistics	Energy	Other Services	Households	Government
Deposit-Tak	ing	Mid	High	High	High	Low	Mid	Mid	High	High	High	Mid	High
Cash Service	es	High	Mid	High	Low	Mid	High	Mid	Mid	Low	Low	High	Mid
Payments	Cash vouchers	Low	Low	High	Low	Low	High	Mid	Low	High	Mid	High	Low
	Credit/ debit card	Low	Low	Mid	Mid	Low	Mid	Mid	Low	Low	Mid	Mid	Low
	E-payments & transfers	Low	High	Low	Low	High	Low	Low	High	Mid	Mid	Low	Mid
	Remittances	Mid	Low	Low	Low	Low	Mid	Mid	Low	Low	Low	Mid	n.a.
Lending	Mortgage loans	Mid	Low	Low	Low	Low	Mid	Mid	Low	Low	Low	Mid	n.a.
	Credit card lending & Consumer finance	Low	Low	Low	Low	Low	Mid	Mid	Low	Low	Low	Mid	n.a.
	Short-term business debt & Trade finance	Low	Mid	Mid	Low	High	Mid	High	Low	Mid	High	n.a.	Mid
	Long-term business debt	Low	High	Mid	Low	High	Mid	Mid	Low	High	Mid	n.a.	Mid
	Project & Infrastruct. finance	Low	High	Low	Low	Mid	Low	Low	Low	High	Low	n.a.	Mid
Capital mar	kets	Low	Mid	Low	Low	Mid	Low	Low	Low	Mid	Low	Low	Mid
Clearing and	d settlement	Low	Low	Low	Low	Mid	Low	Low	Low	High	Low	Low	Mid

Source: Oliver Wyman Analysis



# Illustration of approach (OW's simplified COVID-19 Model)

Assumed total impact of stress per sector

# A Pre-COVID P&L by business sector

Sector	Revenue	COGS <sup>1</sup>	Labour	OOX <sup>2</sup>	Rent	Utilities	D&A	Net Income
Manufacturing	100%	53%	17%	13%	6%	1%	1%	9%

COGS1

50%

# **B** Impact on revenues & cost structure

Decrease in

Revenue -50% Labour OOX<sup>2</sup> Rent Utilities D&A

0%

Impact of decrease on revenue differs depending of variability of P&L item

20%

0%

# C. Post-COVID P&L

Sector

Manufacturing

Sector	Revenue	COGS <sup>1</sup>	Labour	OOX <sup>2</sup>	Rent	Utilities	D&A	Net Income
Manufacturing	100%	80%	17%	23%	12%	1%	3%	-36%

100%

20%

# D<sub>Sector vulnerability assessment</sub>

Sector	Delta % of Pre-COVID Net Income	Pre-COVID Profit margin	Loss-to-profit margin ratio
Manufacturing	-18%	9%	-2.0

Revenue

100%

Ratio between 1 and 3 so classified as "Medium" (~2 years to recoup losses)

Source: Oliver Wyman Analysis

1. Cost of goods sold; 2. Other operating expenses

Results of vulnerability assessment Per customer segment/sector Segments/Sectors Scenario A Scenario B 1. Businesses Agriculture Medium Medium Construction & Medium High Infrastructure Food Retail Low Low Healthcare & Medium Low Pharma Manufacturing Medium High Retail High High Transportation & High High Logistics Tourism & Leisure High High Utilities Medium High Other Services Medium High 2. Households Medium High 3. Government Medium High

High: ~3 years of profits to recover losses, Mid: ~1-3 years of profits to recover losses, Low: <1 year to recover losses



Businesses

### Assumed final demand "under stress" per critical function

Estimation based on (1) sectors' inherent demand for financial functions and services and (2) the sectors' degree of vulnerability to stress

Decrease in demand	No significant change in demand	Increase in demand

		•									•			
Critical Fu	nctions and Services	Agriculture	Construction & Infra.	Food Retail	Healthcare & Pharma	Manu- facturing	Retail	Tourism & Leisure	Transport & Logistics	Utilities	Other Services	2. Households	3. Government	Change in demand scenario A
Deposit-Tak	king								-					
Cash Service														
Payments	Cash Vouchers													
	Credit/ debit card													
	E-payments													
	Remittances												n.a.	
Lending	Mortgage loans												n.a.	
	Credit card lending & Consumer finance												n.a.	
	Short-term business debt & Trade finance											n.a.		
	Long-term business debt											n.a.		
	Project finance & Infrastructure finance											n.a.		
Capital mar	kets													
Clearing and	d settlement													

Source: Oliver Wyman Analysis

14



Businesses

Change in demand scenario B

15

### Assumed final demand "under stress" per critical function

Estimation based on (1) sectors' inherent demand for financial functions and services and (2) the sectors' degree of vulnerability to stress

Decrease in demand No significant change in demand Increase in demand

Critical Fu	nctions and Services	Agriculture	Construction & Infra.	Food Retail	Healthcare & Pharma	Manu- facturing	(U)	Tourism & Leisure	Transport & Logistics	Utilities	Other Services	2. Households	3. Government
Deposit-Tak	ing												
Cash Service	es												
Payments	Cash Vouchers												
	Credit/ debit card												
	E-payments												
	Remittances												n.a.
Lending	Mortgage loans												n.a.
	Credit card lending & Consumer finance												n.a.
	Short-term business debt & Trade finance											n.a.	
	Long-term business debt											n.a.	
	Project finance & Infrastructure finance											n.a.	
Capital mar	kets												
Clearing and	d settlement												

Source: Oliver Wyman Analysis

# 03

SUPPLY OF CRITICAL FUNCTIONS/SERVICES

# SUPPLY FOR THE MOST RELEVANT CRITICAL FUNCTIONS WAS ASSESSED TOP-DOWN FOR THE 2 STRESS SCENARIOS

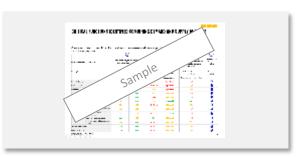
## Approach followed

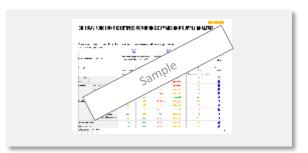
Done jointly

- Assess the conditions for supply of critical functions
- Assessed conditions that shape supply of critical functions, along 3 main questions:
  - a) "How many players are available in the system to take on the provision of the critical function?"
  - b) "How easy is it to separate / transfer provision of the critical function across financial institutions in the system"?
  - c) "How substitutable are critical functions / products between themselves in the eyes of customers?"
- Classified "High" "Medium" "Low" based on expert judgement, considering high heterogeneity between regions

- 2 Assess implications of stress on supply of critical functions
- Assessed **possible changes on conditions around supply under stress** scenarios A & B, based on expert judgement focused essentially on answering:
- d) "Would the assessment in step 1 change if we were under one of the stress scenarios"?
- Concluded on **overall "vulnerability of supply" under stress** per critical function

- Short-list critical functions combining demand & supply analysis
- Combined results from demand analysis (previous section) and supply analysis (this section) to conclude on overall prioritization along critical functions for policy attention, to proceed for deep-dive and recommendations in next section









# ASSESSING THE CONDITIONS FOR SUPPLY OF CRITICAL FUNCTIONS AND IMPACT OF STRESS SCENARIOS, WE CONCLUDE ON THE OVERALL "VULNERABILITY OF SUPPLY"

# Assumed vulnerability of supply of critical functions across entities and products

Based on SRB & FSB guidance and expert judgement, adjusted to geographical context and scope of project

		B		C	, (ī				
		the critical	are available to take function on?  / across entities)	How easy is it to s provis (Substitutability	sion?	How substitutable are functions/ products between themselves?	Vulnerability of supply to Covid-19 stress  High vulnerability		
				Based on process automation	Based on standardization	(Substitutability across products)	Scenario A	Scenario B	
Deposit-Taking		Mid	Low	High	High	Low	•		
Cash Services		Mid	Low	Mid	High	Low	•		
	Cash Vouchers	Low	High	Mid	Mid	High	•	•	
Payments	Credit/ debit card	Mid	Low	Mid	Mid	High	•	•	
	E-payments	High	Mid	High	Mid	High	•	•	
	Remittances	Mid	High	Mid	High	Mid	•	•	
	Mortgage loans	Mid	Low	Low	High	Mid	•	•	
	Credit card lending & Consumer finance	Mid	Mid	Mid	High	Low	•	•	
Lending	Short-term business debt & Trade finance	Mid	Mid	Low	High	Low	•		
	Long-term business debt	Mid	Low	Low	Mid	Low	4		
	Project & Infrastructure finance	Low	Low	Low	Low	Mid	•		
Capital mar	kets	Mid	Low	Mid	Mid	Low	•	•	
Clearing an	d settlement	Low	Low	High	High	Low			

© Oliver Wyman Source: FSB, Oliver Wyman Analysis

# CRITICAL FUNCTIONS SHORTLISTED BASED ON THE COMBINATION OF DEMAND AND SUPPLY ANALYSIS

# Prioritisation of critical functions for policy attention based on aggregated assessment of supply & demand

		Change in dema	and under stress	stress s	of supply under scenario	Prioritization for policy attention (and for deep- dives in next section)
Critical Function	s and Services	Scenario A	Scenario B	Scenario A	Scenario B	Deep dive provided
Deposit-Taking		No change	Decrease	•	•	Low
Cash Services		Increase	Increase			High
	Cash Vouchers	Increase	Increase			High
Potail naumonts	Credit/ debit card	Increase	Increase		•	High
Retail payments	E-payments	No change	Increase			Mid
	Remittances	Increase	Increase	•	•	High
	Mortgage loans	No change	Decrease	•	•	Low
	Credit card lending & Consumer finance	No change	Increase	•	•	Mid
Lending	Short-term business debt & Trade finance	Increase	Increase	•		High
	Long-term business debt	No change	Decrease			Low
	Project & Infrastructure finance	No change	Decrease			Low
Capital markets		No change	No change		•	Mid
Clearing and settlement		No change	No change			Mid <sup>1</sup>
Wholesale funding		Financial s	ector specific functio	Mid		
Wholesale payme	nts	supply ass	essment – prioritizat	tion based on exper	t judgment	High

<sup>1.</sup> Included as a deep dive in line with ASBA working group considerations

# 04

# SHORT TERM RECOMMENDATIONS FOR SELECTED CRITICAL FUNCTIONS

# RECOMMENDATIONS PUT FORWARD SERVE AS GUIDELINES IN STRESS SITUATIONS

## Approach followed for recommendations

Deep dive per critical function – summarized version provided in report

General recommendations for crisis management

Overview of critical function

**Provision of critical function** 

Critical function-specific recommendations

- Tactical actions for immediate contingency planning and crisis response (crisis "playbook" actions)
- Strategic actions to promote resilience of the financial system, and foster inclusion and innovation (not included in this report)
- Detail provided for:
  - Cash services
  - Payment services (cash vouchers & credit cards)
  - Remittances
  - ST Business lending
  - Clearing and settlement services
  - Wholesale payments (added expost)
- High level overview to understand relevance of function across countries and different models in place

- Description of how function is provided, including interaction with non-financial services
- Assessment of services required to ensure continuity
- Definition short term recommendations, covering:
  - Real economy
  - Financial sector
  - Infrastructure
- Case studies to conclude on best practices and shortfalls (not included in this report)
- Outside in assessment of operational considerations per recommendation (not included in this report)







The In Windows Strike St. Strike

# TACTICAL RECOMMENDATIONS (SHORT-TERM)

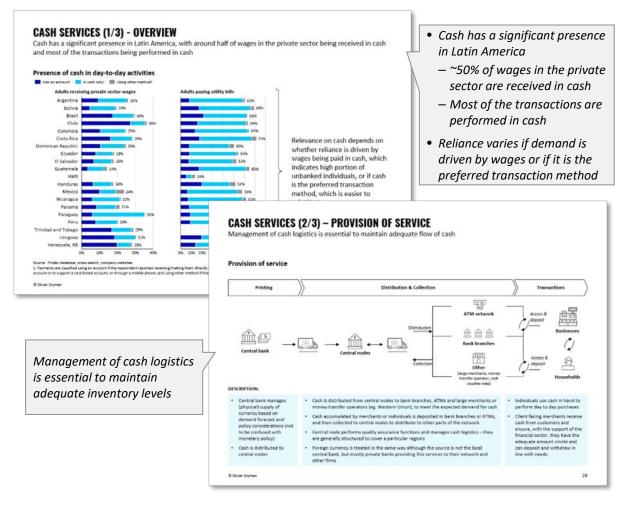
Supervisors should engage in actions to ensure they are ready to safeguard critical functions without compromising stability

# Overview of recommendations provided

Measure		Actions required
		• Gear internal governance and staff to "crisis mode", instating business continuity plans where existing (e.g. establish "control room", suspend on-site activity, and reallocate capacity)
		<ul> <li>Issue internal guidance on remote work, reallocation of capacity/tasks</li> </ul>
<b>N1</b>	Set-up a coordinated	Ensure cyber security
UI	emergency response	<ul> <li>Evaluate critical services disruption for quick fixes (e.g. reserves mgmt.)</li> </ul>
		<ul> <li>Clarify operational relief (e.g. dead-lines, remediation scrutiny) and behavioral issues (e.g. ban on dividends, share repurchases)</li> </ul>
		<ul> <li>Convene international coordination groups for best practice sharing (e.g. ASBA WGs)</li> </ul>
		Conduct top-down scenario analysis / stress-testing to identify areas of vulnerability
		<ul> <li>Perform vulnerability and/or resolvability assessment for critical institutions as required</li> </ul>
02	Crisis management	<ul> <li>Assess broad systemic and financial risks (e.g. assess possible crisis transmission mechanisms from non-bank sector, FMIs, debt overhang and NPLs build-up)</li> </ul>
UZ	to prioritise supervisory attention	<ul> <li>Where sensical, run "fire-drill" or simulation exercises for high-risk areas)</li> </ul>
	decention	<ul> <li>Define practical rules to manage impact (e.g. prudential treatment, conduct, NFR)</li> </ul>
		<ul> <li>Set-up "crisis reporting" to monitor implementation and evolution of crisis including systematically documenting "lessons learned"</li> </ul>
		<ul> <li>Refine top-down planning scenarios and assess unintended consequences of policy action (e.g. distributional income across sectors, over indebtedness, NPL build-up, "zombie" companies)</li> </ul>
03	Post-crisis stabilizing and reshaping the sector	• Enhance AQR / ST toolkits to plan for full scale recovery (e.g. adjusting macro scenario & methodology)
	resnaping the sector	<ul> <li>Support implementation of government measures as required (e.g. credit risk criteria for SME lending schemes, aggregate information on measures' implementation across banks)</li> </ul>

# CASH SERVICES — OBJECTIVE IS CONTINUE MEETING THE ELEVATED DEMAND FOR CASH, ENSURING UNINTERRUPTED ACCESS AND DISTRIBUTION

## **Key takeaways**



## **Short term recommendations**

Summarized

Reduce incentives to stock
cash reassuring depositors of
the availability and preventing
accumulation of inventory
outside banking system

Ensure sufficient inventory of cash in central bank and within the banking system

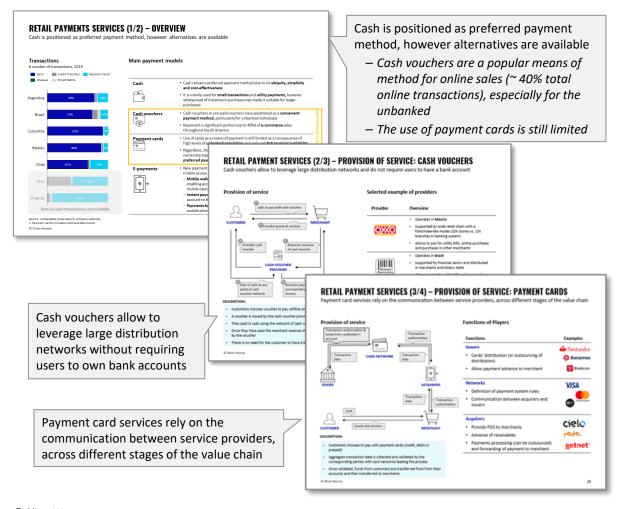
Limit demand on cash by safeguarding alternative payment methods

Maintain capillarity of bank branches and ATMs to ensure access to cash

Provide continuity of services and security within cash logistics chain

# RETAIL PAYMENT SERVICES — OBJECTIVE IS TO REDUCE HURDLES TO ACCESS, ENSURE UNINTERRUPTED FUNCTIONING AND POSTION AS AN ALTERNATIVE TO CASH

## **Key takeaways**



## **Short term recommendations**

Summarized

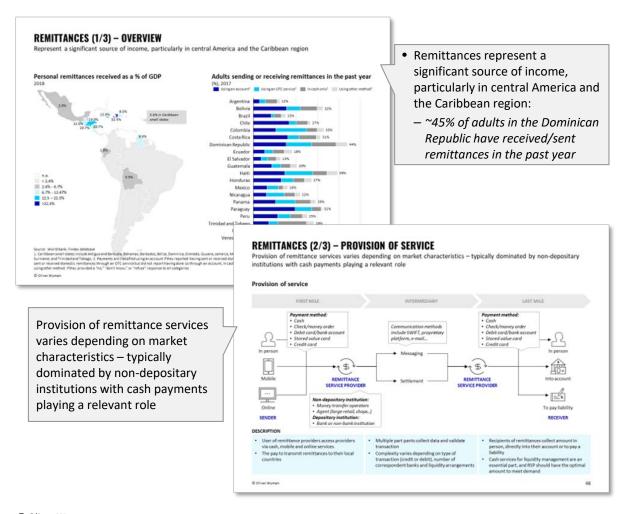
Increase reach and attractiveness of non-cash payment methods

Safeguard continuity of retail payment backbone requiring larger acquirers and issuers as well as shared services providers to prepare contingency plans and identify interdependencies

Safeguard continuity of infrastructure services

# **REMITTANCES** — OBJECTIVE IS TO SAFEGUARD FLOW OF FUNDS TO THE UNDERBANKED

## **Key takeaways**



## **Short term recommendations**

Maintain network of

Summarized

remittance service providers safeguarding access to cash

safeguarding access to cash services and wholesale payments

**02** 

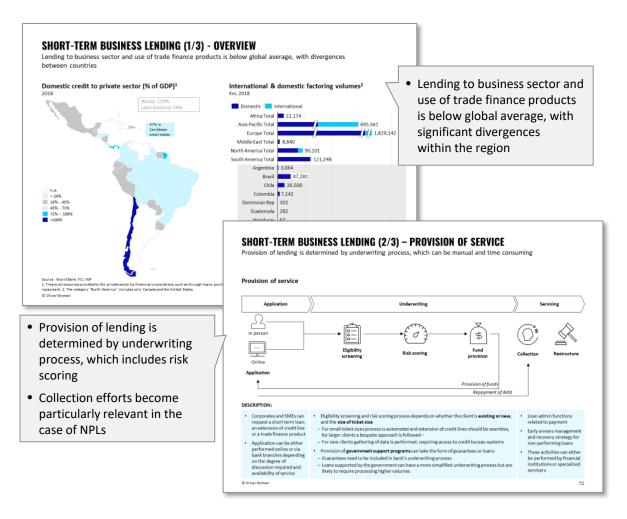
**Encourage** remittance flows providing incentives to foreign remitters and implementing regulation to foster decrease in fees

03

Substitute **lost income** for remittance receivers including reliant segments government support schemes

# SHORT-TERM BUSINESS LENDING - OBJECTIVE IS TO SAFEGUARD CREDIT AVAILABILITY, SUPPORT GOVERNMENT PROGRAMS AND MANAGE CREDIT RISK

## **Key takeaways**



### **Short term recommendations**

Summarized

Monitor financial situation of businesses and households to assess funding demands and risks

Review credit underwriting policy between authorities and banks to avoid credit crunch

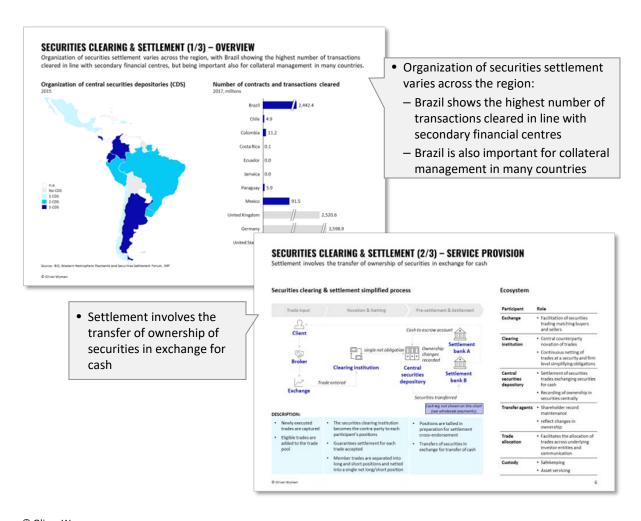
Perform active credit risk management preventing forbearance on unhealthy exposures

Review capital requirements
rules to account for temporary
increase NPLs and to provide
liquidity

Develop government supportschemes and guarantees to lessen the burden on financial entities

# SECURITIES CLEARING & SETTLEMENT — OBJECTIVE IS TO ENSURE ADEQUACY OF CONTINGENCY PLANS AND SUFFICIENT LIQUIDITY IN THE SYSTEM

## **Key takeaways**



## **Short term recommendations**

Summarized

Ensure contingency plan is tailored to Covid circumstances

Forecast liquidity needs and ensure sufficiency of buffer

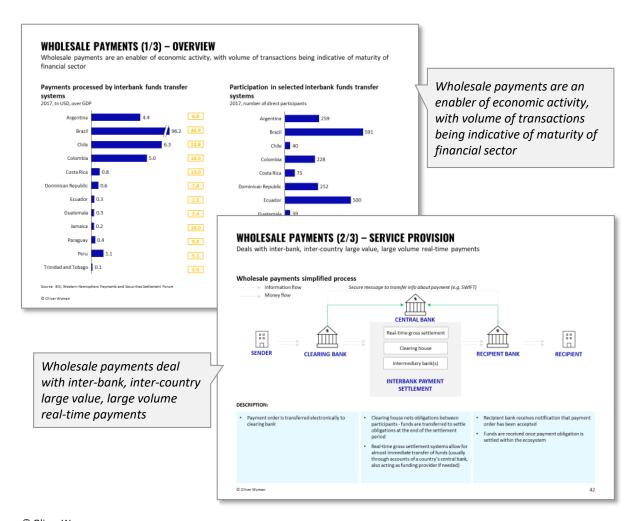
Adjust pre-funding and exposure limits

Raise additional liquidity if required

**105** Enhance cyber resilience

# WHOLESALE PAYMENTS — OBJECTIVE IS ENSURING ADEQUACY OF CONTINGENCY PLANS AND FULFILMENT OF CRITICAL OPERATIONS

### **Key takeaways**



### **Short term recommendations**

Summarized

Ensure contingency plan is tailored to Covid circumstances

Safeguard systemic providers

with adequate contingency plans and allowing for controlled degradation of service

Ensure adequate funding in the system

# **TEAM DETAILS**

#### **RESPONSIBLE TEAM**



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We leveraged our global expert network with experience in public policy and resolution engagements in the US and EU, including Paul Cantwell, Stefan Schwengler and Lisa Quest

# APPENDIX

# **GLOSSARY**

Abbreviation	Definition
ASBA	Association of Supervisors of Banks of the Americas
BAU	Business as Usual
CF	Critical Function
FSB	Financial Stability Board
IMF	International Monetary Fund
MFI	Monetary Financial Institutions
SRB	Single Resolution Board

# DEFINED LONG-LIST OF CRITICAL FUNCTIONS & CUSTOMER SEGMENTS FOR THE ANALYSIS (1/2)

## Short-list of critical functions for the analysis

Based on SRB & FSB guidance, adjusted to geographical context and scope of project

Critical function  Deposit taking  Cash services		<ul> <li>Acceptance of deposits from non-financial institutions, including households, businesses and public institutions</li> <li>Current accounts / overnight deposits, deposits with agreed maturity and deposits redeemable at notice</li> </ul>		
		Retail Payments	Cash Vouchers	• Payments made using cash vouchers, which allow deferring payment and centralizing it in network of cash voucher distributors
Credit/ debit card	Payment cards that allow to deduct money directly from current accounts and/or to borrow funds to pay for a purchase			
	E-payments	Payments performed using electronic devices, such as computers, smartphones or tablets		
	Remittances	Primarily refer to methods for sending money to a migrant's home country		
Lending	Mortgage loans	• Lending to households for the purpose of investing in houses for own use and rental, including building and refurbishments, as as well as lending for small businesses (business mortgages)		
	Credit card lending & Consumer finance	• Lending to households or business owners for the purpose of purchases of products and services, including credit card lending, consumer finance at point of sale and consumer loans		
	Short-term business debt & Trade finance	• Lending to businesses as a short-term solutions for cash management and funding of operations. Includes working capital, lines of credit, factoring and other short-term loans		
	Long-term business debt	Lending to businesses as medium- and long term solutions for investment and funding of operations		
	Project finance & Infrastructure finance	• Financing long-term infrastructure, industrial projects, and public services, whereby the debt and equity used to finance the projects are paid back from the cash flows generated by the projects		
Capital markets		<ul> <li>Issuance and trading of securities, related services such as prime brokerage and market making and related advisory services.</li> </ul>		
Clearing and settlement		<ul> <li>Services offered to clients for confirmation, clearing and settlement of securities transactions</li> <li>Safekeeping and administration of financial instruments for clients and services related to custodianship</li> </ul>		
Wholesale Funding		Operations between financial counterparties on lending and borrowing, taking place in interbank markets		
Wholesale Payments		Payment services offered to Monetary Financial Institutions, includes payments related to correspondent banking services		

Financial sector
specific functions
excluded from
demand and
supply assessment
– prioritization
based on expert
judgment

# DEFINED LONG-LIST OF CRITICAL FUNCTIONS & CUSTOMER SEGMENTS FOR THE ANALYSIS (2/2)

## Customer segments for the analysis – applied in both scenarios

Based on OW's COVID-19 sector vulnerability model and expert judgement, adjusted geographical context and scope of project

Segment/ Sector			Definition	_
		Agriculture	<ul> <li>Activities related to growing crops, raising animals, and harvesting fish and other animals either on forests/farms/ their natural habitats</li> </ul>	_
1. Businesses	<b>1</b>	Construction & Infrastructure	<ul> <li>Activities related to construction and infrastructure businesses such as commercial building construction companies, wireless telecommunication carriers, and information &amp; communication technology companies</li> </ul>	
		Food Retail	Comprises grocery businesses (all other retail activities are part of retail sector)	-
	C.F.	Healthcare & Pharma	Comprises human health & social work activities as well as supply of medical equipment	-
		Manufacturing	Includes the manufacturing of apparel, electric appliances, automotive manufacturing etc.	-
		Retail	• All wholesale & retail trade activities for the general public e.g. clothing, automotive, home appliances, etc.	-
		Transportation & Logistics	Comprises bus & tramway operations as well as air transport	-
			<ul> <li>Also incorporates cargo operations including road, rail, and air freight</li> </ul>	
		Tourism & Leisure	<ul> <li>Includes arts &amp; entertainment, sports facilities, hotel services as well as companies providing leisure activities, incl. television programming, gambling etc.</li> </ul>	_
	<b>A</b>	Energy	• Electricity and gas supply, water supply, crude petroleum, as well as waste and wastewater management etc.	-
	Q	Other Services	<ul> <li>Includes other sectors not provided for above, e.g., education, technical consultancy, other service-led businesses.</li> </ul>	-
44	2. Hou	seholds	Refers to entire consuming population, hence, individual consumption	-
	3. Government		Includes all public authorities on national, state, and local level	-
	4. Fina	ncial sector	<ul> <li>Comprises banks, regulated entities, and institutions that provide financial services to corporate and retail customers, including financial market infrastructures</li> </ul>	Financial sector excluded from demand analysis

Source: Oliver Wyman Analysis

# READ OUR LATEST INSIGHTS ABOUT COVID-19 AND ITS GLOBAL IMPACT ONLINE

Oliver Wyman and our parent company Marsh & McLennan (MMC) have been monitoring the latest events and are putting forth our perspectives to support you clients and the industries you serve around the world. The Coronavirus Hub will be updated daily as the situation evolves.



Visit our dedicated COVID-19 website



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