



Cloud Innovation Platform

By Société Générale

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Tuesday, May 7th, 10:30 a.m.-11:15 a.m.

#redhat #rhsummit #TheFutureIsYou @SG_InsideIT



SOCIÉTÉ GÉNÉRALE – THE ESSENTIAL

Société Générale is one of the leading European financial services groups.

Based on a diversified and integrated banking model, the Group combines **financial strength** and **proven expertise in innovation** with a strategy of **sustainable growth**, aiming to be the **trusted partner for its clients**, committed to positively transforming the world.

3 complementary core businesses:

- French Retail Banking
- International Retail Banking & Financial Services
- Global Banking & Investor Solutions

31 million*

individual clients, businesses and institutional investors

+ 147,000**

members of staff

67 countries

worldwide

€2.8 billion

Group Net Income

€23.95 billion

in Net Banking Income

11.5%

Common Equity Tier 1 ratio

OUR VALUES

Team Spirit

Innovation

Responsibility

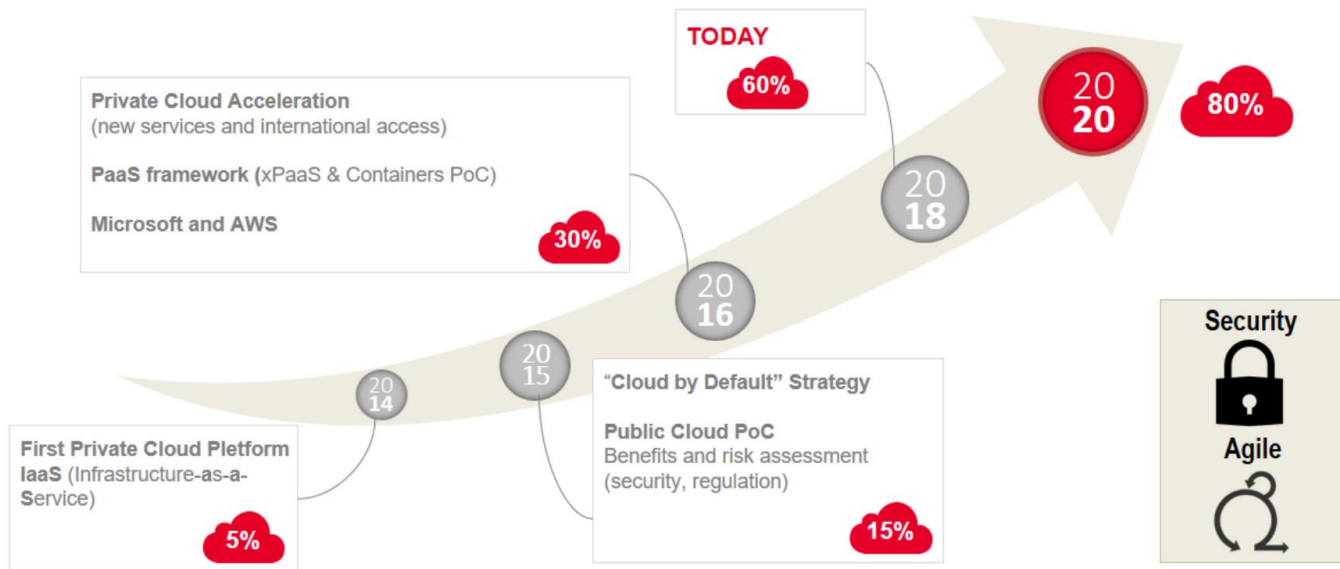
Commitment

* Excluding insurance policyholders.

** Rounded figure. Headcount at end-2017 excluding temporary staff

CLOUD STRATEGY

80% of eligible servers to Cloud (Public or Private) by 2020



Cloud First strategy to increase **agility**, **openness**, **resiliency** and **efficiency** in order to offer clients a wider variety of services, faster.

Hybrid Cloud-based infrastructure services platform to meet the target of migrating **80% of our eligible servers to Cloud (Public or Private) by 2020.**

Source: https://www.societegenerale.com/sites/default/files/18100_pr_societe_generale_accelerates_its_cloud_strategy_en_0.pdf, October 18th, 2018

CLOUD STRATEGY

Ready for business-critical apps, and now for innovation!



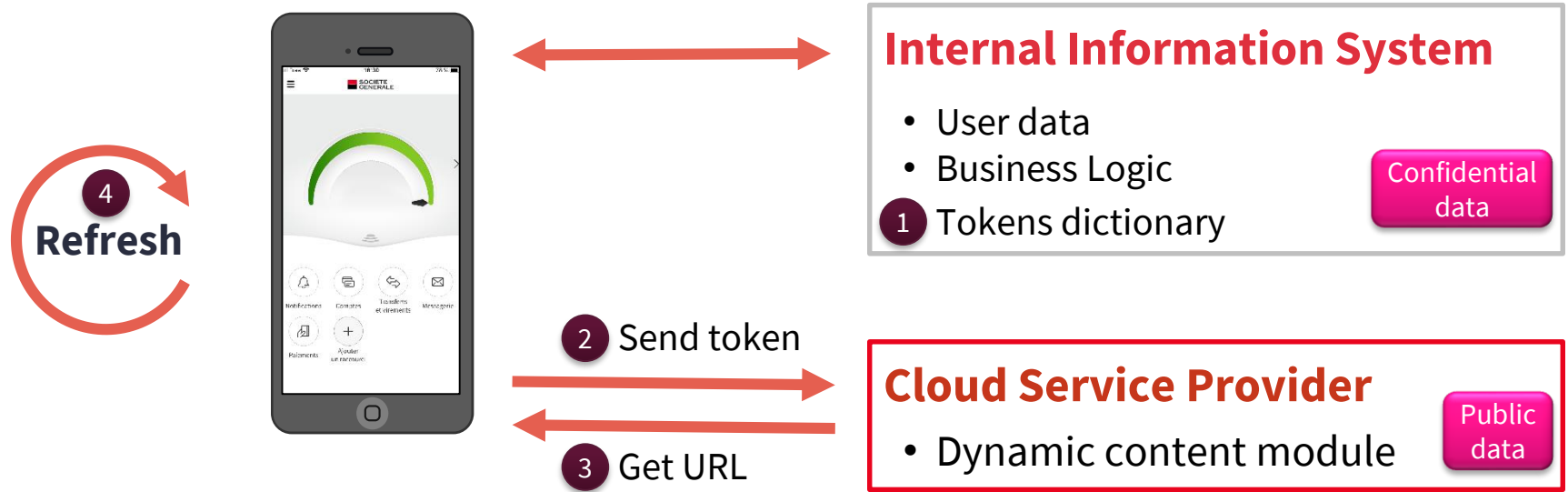
The **self-service** offered by the cloud **does not exempt** the company from **complying with regulatory constraints**.

Proven cloud -related **productivity gains** based on **industrialized processes** defined for regulated environments **were not enough to unlock innovation**.

Fortunately, there was **low-hanging fruits...**

REAL EXAMPLE

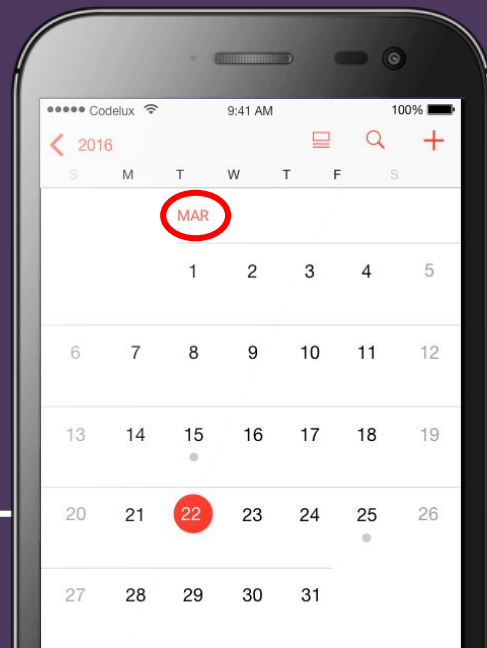
DEPLOY A PUBLIC DATA MODULE IN THE CLOUD



REAL EXAMPLE DEPLOY A PUBLIC DATA MODULE IN THE CLOUD

PROJECT'S KICK-OFF

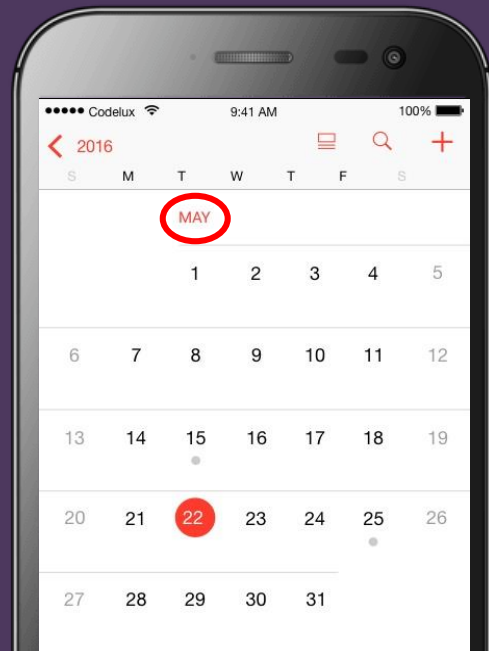
22th March



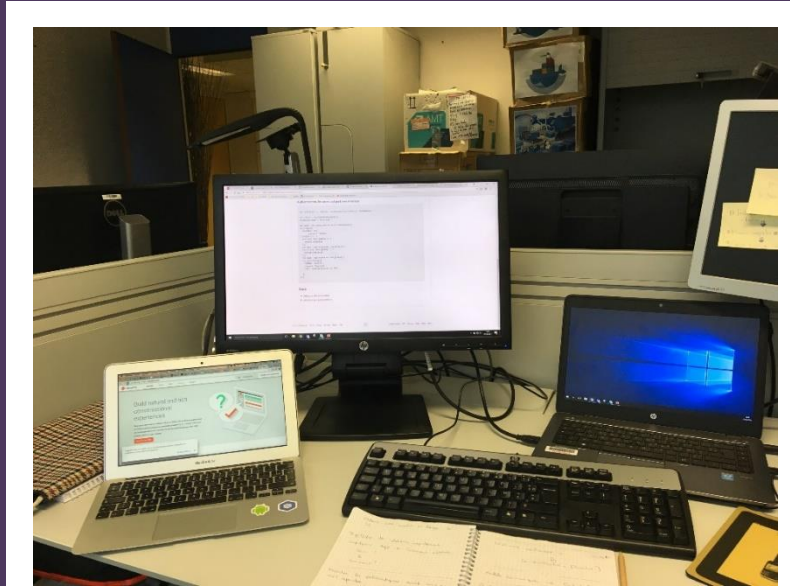
REAL EXAMPLE DEPLOY A PUBLIC DATA MODULE IN THE CLOUD

2 MONTHS TO START EXPERIMENTING

Until 22th of May



REAL EXAMPLE DEPLOY A PUBLIC DATA MODULE IN THE CLOUD



► **HIGH RISK OF
SHADOW IT.**

OUR SOLUTION BUILD A CLOUD INNOVATION PLATFORM!



WE BUILT A CLOUD INNOVATION PLATFORM TO...

- ✓ Work closer with our consumers
- ✓ Improve our products & services
- ✓ Empower teams
- ✓ Optimize our processes

DESIGN PRINCIPLES



CLOUD INNOVATION FACTORY & PLATFORM END TO END OFFERING

WHICH USE CASES ?

Innovation POC

Qualify Emerging Tech

Internal Startup program

External Startups

Hackathons / Challenges

Self-training



Raw Idea



Brilliant
PoC / MVP



Go
To
Prod

The right people

- Sponsors
- Innovation ecosystem
- Hybrid development team
- OIF Professional Services

The right process

- From idea to production
- @gile development
- Return on Experiment

The right tools

- **Cloud Innovation Platform**
- POC Delivery Packs
- Proxim'Inno Desk



SOCIÉTÉ
GÉNÉRALE

CLOUD INNOVATION PLATFORM – PRODUCTS FAMILIES



Tools Box

Leverage on selected tools to simplify your experimentations

- Integrated development environments
- Data Analysis
- Web-Analytics
- Sharable Cloud Storage
- Collaboration tools
- OpenID Connect proxies
- API Editors



App Box

Deploy apps on a corporate compatible enterprise grade container-based platforms

- 200+ components available
 - Red Hat Middleware catalog
 - Operatorhub.io
- Pre-integrated emerging solutions :
 - ChatBots / ChatOps
 - Speech-to-Text
 - Quantum
 - Blockchain, ...



Cloud Box

Build your solution from ground-up leveraging on Cloud Service Providers catalogs

- Internal Cloud Catalog (C0, C1, C2)
- Amazon AWS Catalog (C0)
- Azure Catalog (C0)
- Internal – Isolated POC (C2)

C0 – Public data
C1 – Internal Data
C2 – Critical Data



APICURIO

RED HAT
CODEREADY



Microcks



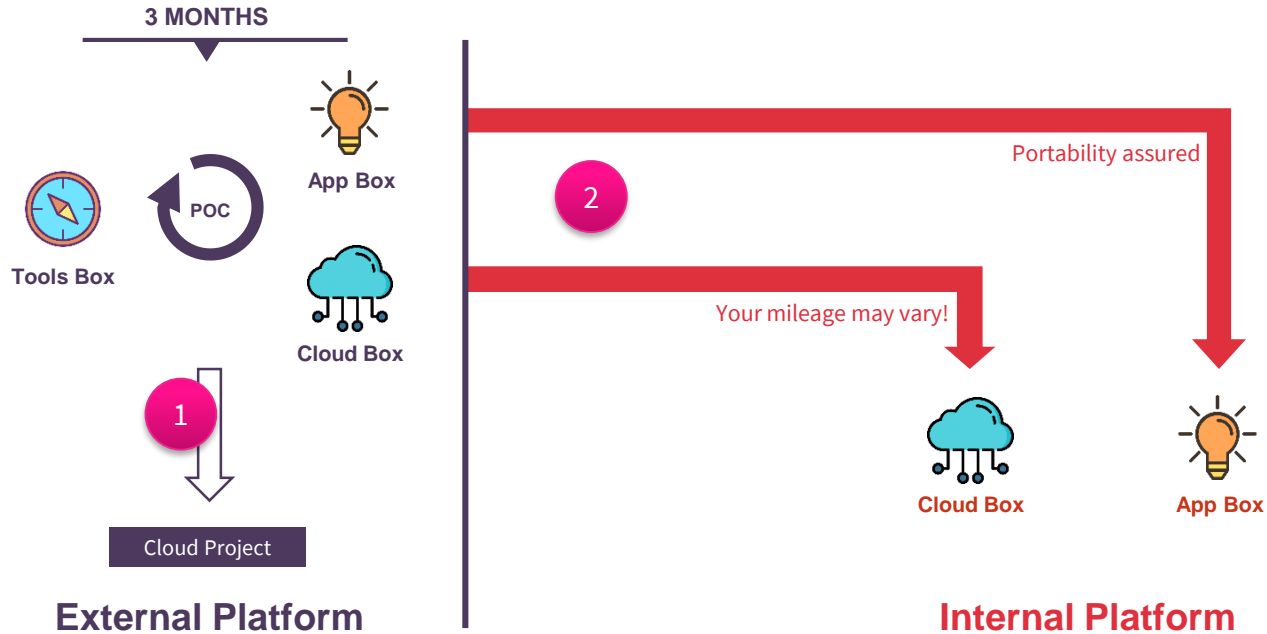
RED HAT
OPENSIFT
Container Platform



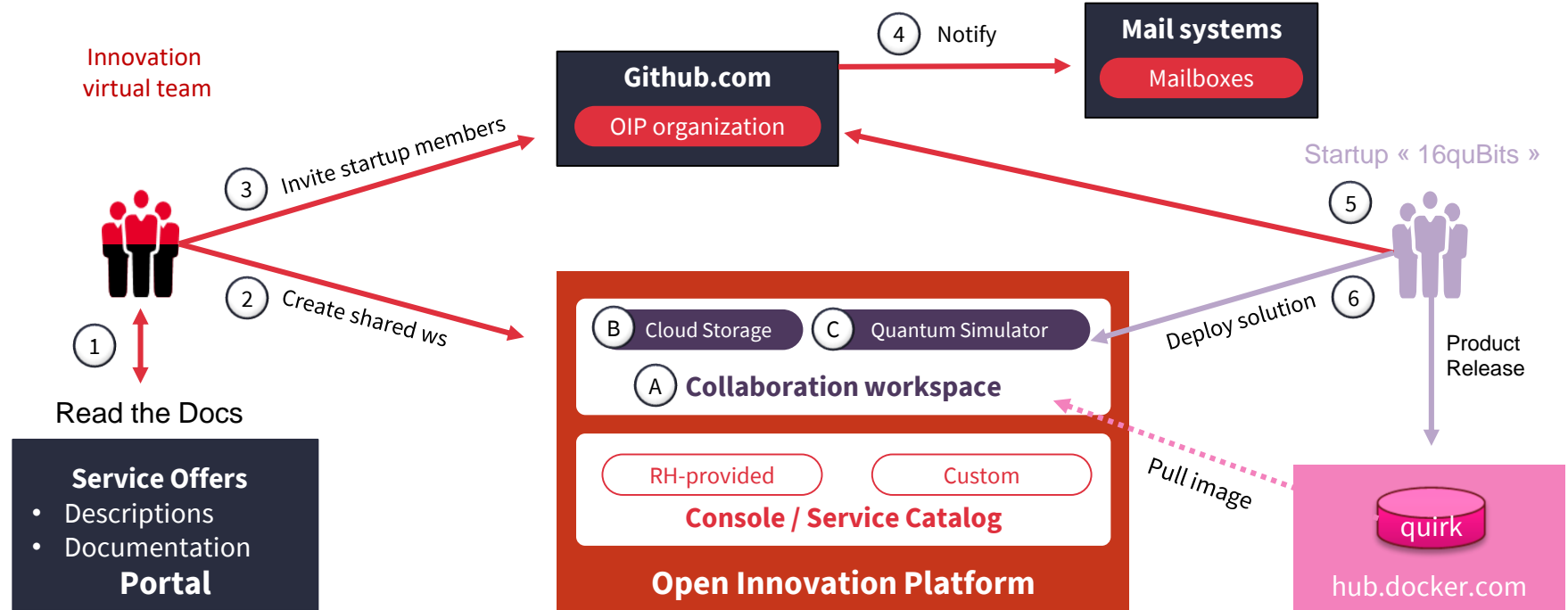
OPERATOR
FRAMEWORK

SOME USE CASES

MAKE POC OFF-PREMISES, DEPLOY ANYWHERE!



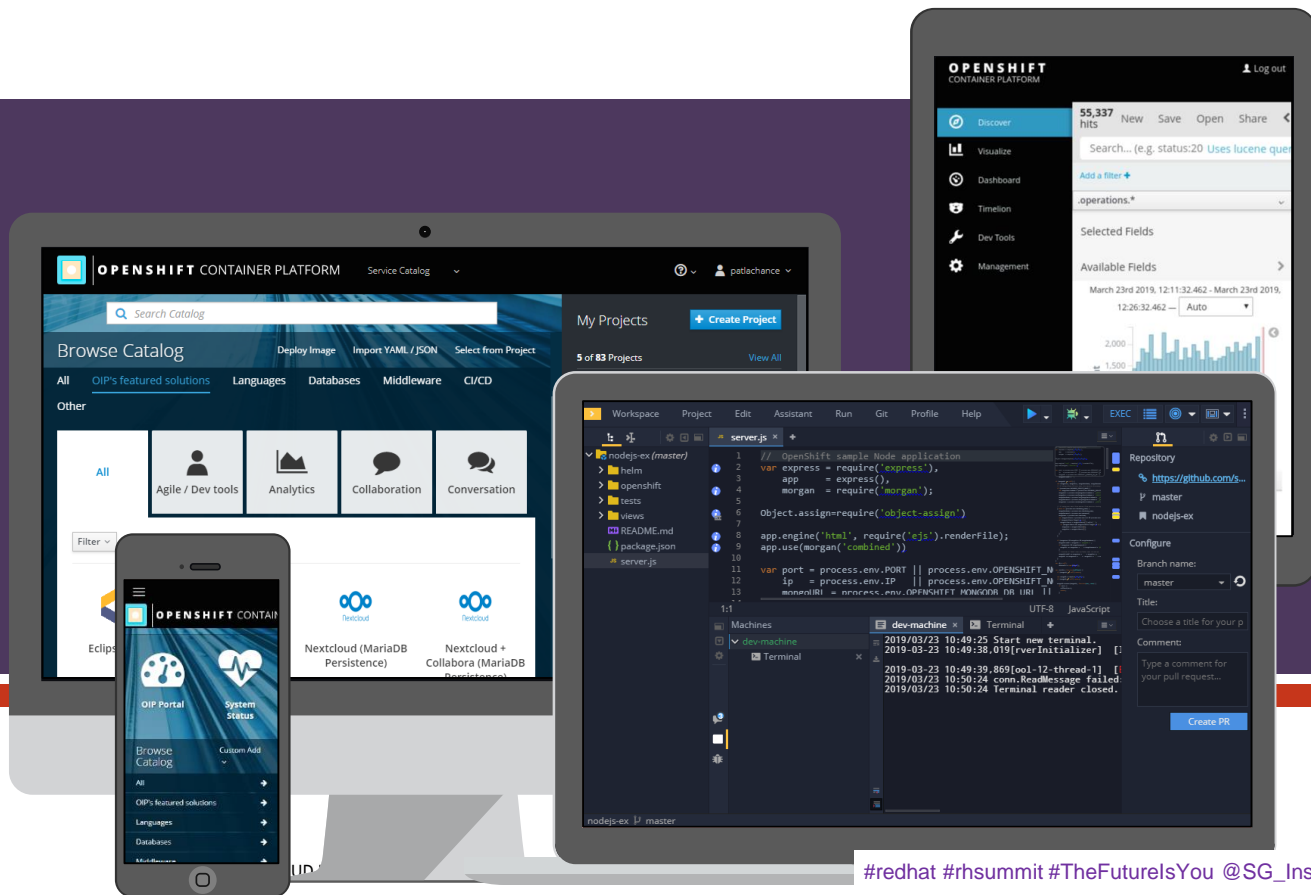
SOME USE CASES WORK WITH STARTUPS & QUALIFY PRODUCTS



CLOUD INNOVATION PLATFORM – MULTIPLE USER EXPERIENCES

- ACCESSIBILITY -

ANY TIME,
ANYWHERE,
ANY DEVICES!





5 min

“GET STARTED IN MINUTES,
FOCUS ON **CREATING VALUE** RATHER THAN
MANAGING **TECHNICAL INFRASTRUCTURE**”

CONTRIBUTION TO OPEN SOURCE UPSTREAMING AND OPENING OUR CODE

Some upstream contributions to OpenShift components

- oAuth-Proxy: <https://github.com/openshift/oauth-proxy/pull/96>
- Deployment: <https://github.com/openshift/openshift-ansible/issues/11137>

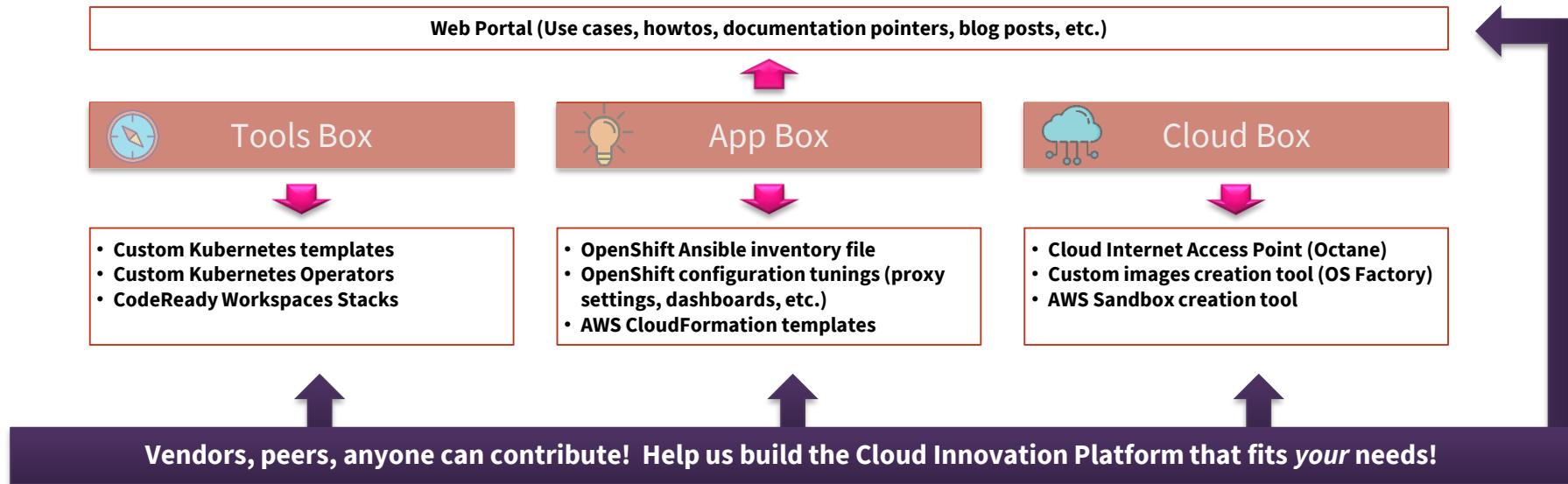
Cloud Innovation Platform source code will soon be release as public open source project, follow us on

GitHub.com: <https://github.com/societe-generale/cloud-innovation-platform>

Twitter: @SG_InsideIT @SocieteGenerale, @CareersSocGen, #TheFutureIsYou, #IT

CONTRIBUTION TO OPEN SOURCE SCOPE OF OUR PROJECT

First modules to be released depicted below



WHO ARE WE?



@lbroudoux

Red Hat **Senior AppDev Solution Architect**
OpenSource committer at night

Everything distributed!
#API, #OpenAPISpec, #Kubernetes, #Camel



@YadaYac

Red Hat **Principal Solution Architect**
Helping strategic accounts on their digital journey

Proud geek!
#Innovative, #Entrepreneur, #Visionary

CLOUD INNOVATION PLATFORM RED HAT ALREADY A CONTRIBUTOR!



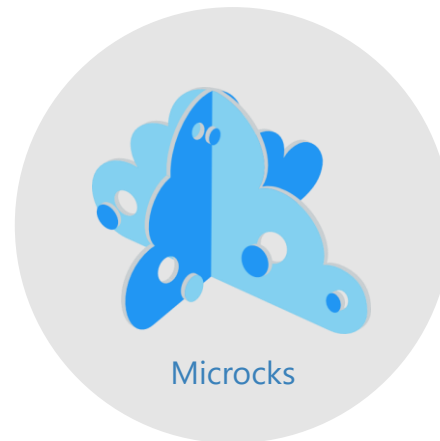
Tools Box



- API Development Acceleration Pack



APICURIO



Microcks

CLOUD INNOVATION PLATFORM DEMONSTRATION

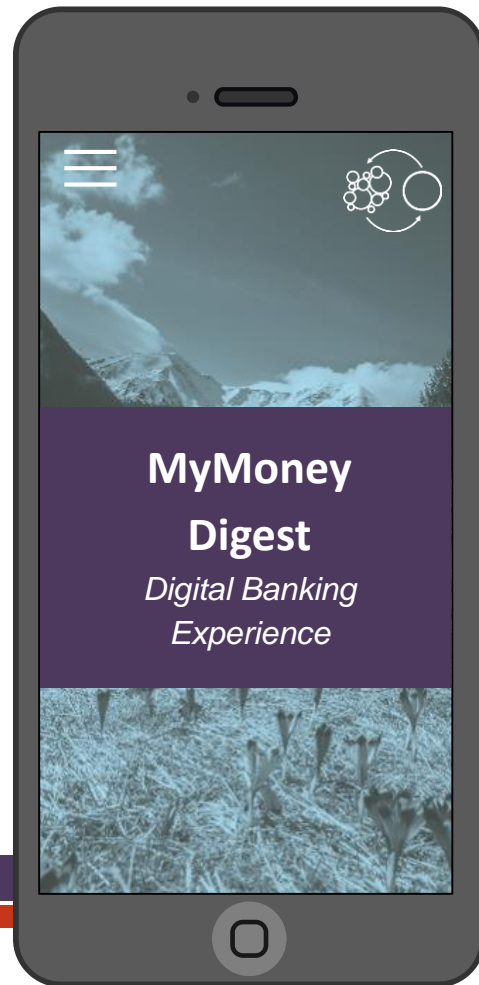
Red Hat's OpenBanking API Sample use case

Cloud Innovation Platform is cool and we wanted to be the first vendor to contribute!

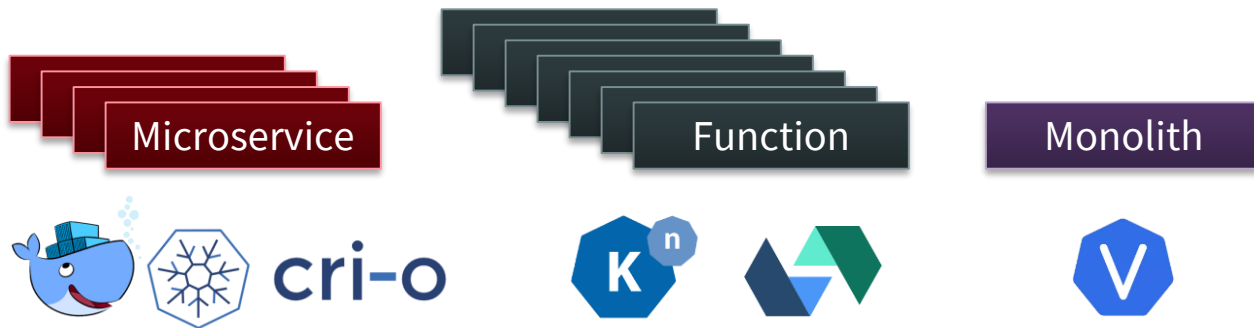
Even though it leverages Red Hat OpenShift service catalog, which already offers 160+ components out of the box, we thought it would be useful to showcase how our technologies can speed up Finance institutions' Digital Transformation

VALUE PROPOSITION

- Speed-up ideation with API BaaS
- Discover and reuse existing / standard APIs
- Build your own API
- Simplified develop process
- Collaborate easily



CLOUD INNOVATION PLATFORM NEW FEATURES COMING



BARE METAL, VSPHERE, RHV, OPENSTACK, AWS, AZURE, GOOGLE

- With OpenShift 4.x upgrade, Functions & Monolith out of the box, thanks to Knative, OpenWisk and KubeVirt
- Can be deployed on bare-metal, virtualization and major Cloud Platforms
- Learn more on OpenShift during dedicated sessions

**THE FUTURE
IS YOU**



**SOCIETE
GENERALE**