

Digital Transformation

SECURITIES SERVICES
NICOLAS LE CLECH



BNP PARIBAS

The bank for a changing world

FOSTERING A CULTURE OF INNOVATION

Harnessing new technologies



Artificial Intelligence



Blockchain



Big Data

Reinventing the way we work



Test & Learn



Co-creation



Open Innovation

Transforming our IT



Simple IT



Cloud Infrastructure



Security & Resiliency



Define and drive our **digital strategy**



Cultivate a '**digital mindset**' by disseminating knowledge and sharing expertise, globally



Harness emerging technologies – blockchain, robotics, big data – to build **new solutions**



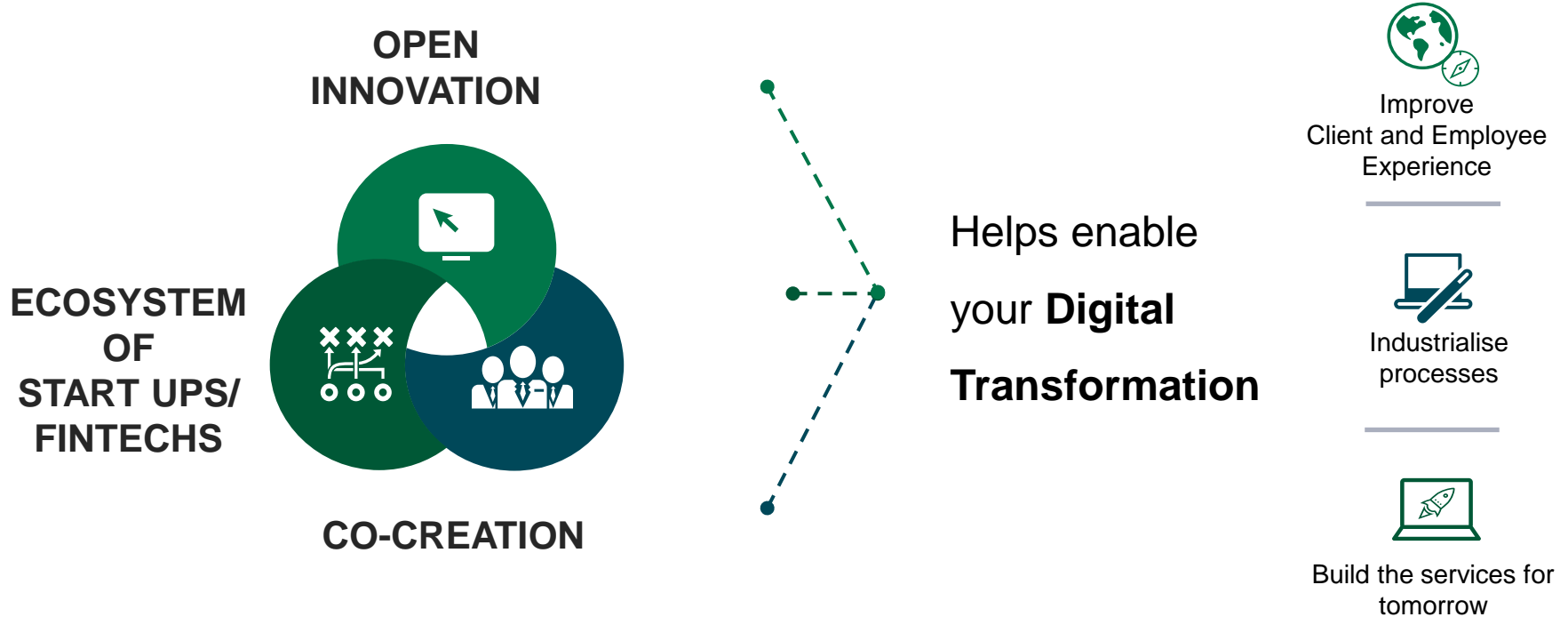
Support **collaboration and co-creation** with clients, fintechs and other industry stakeholders



Influence and drive adoption of industry-level **standards** for new technologies

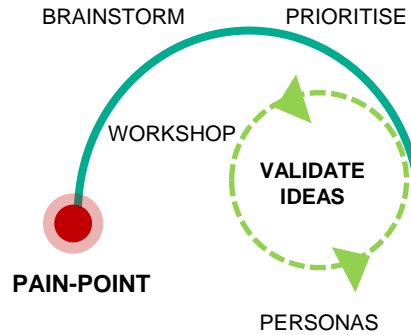


BUILDING AN ECOSYSTEM TO INNOVATE



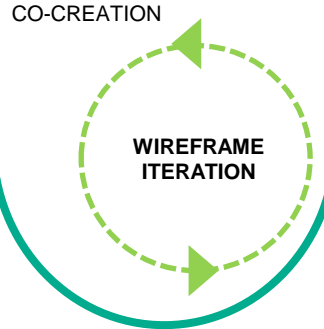
NEW WAYS OF WORKING

DESIGN THINKING



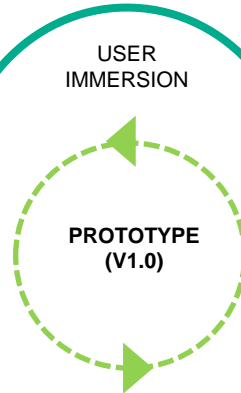
 Research

LEAN STARTUP

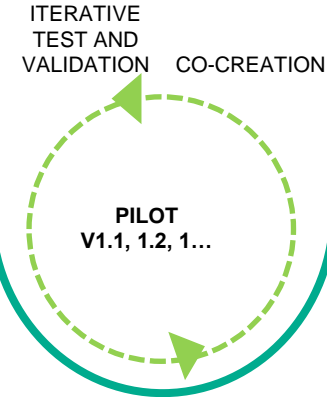


 Explore

AGILE

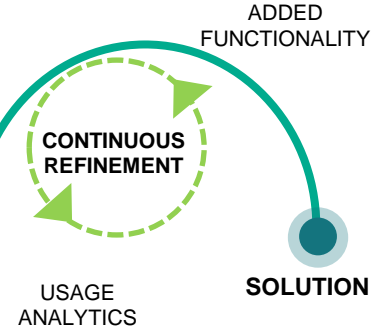


 Prototype



 Pilot

REALISATION



 Scale



PRACTICAL CASE STUDIES



Test & Learn



Co-creation



Artificial
Intelligence



Blockchain



Big Data



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ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING



OBJECTIVES

- Speed up and simplify the post-trade process
- Automate the trade settlement exception process
- Provide analytics for root cause analysis



BENEFITS

- Increases the performance of trade processing
- Lowers the risk of failed settlements
- Lowers the cost of trade management through better automation of the exception process
- Provides better insight on the performance of the trade management actors



SOLUTIONS

- A machine learning based dashboard that calculates a Key Risk Indicator based on the probability of non settlement
- Random forest models are run on a daily basis on the last 3 month population of trades



TAKING FIDUCIARY & DEPOBANK SERVICES INTO THE FUTURE



OBJECTIVES

- Re-invent our fund depositary control and contractual investment compliance processes around Artificial Intelligence, Machine Learning and Natural Language Processing
- Invent new services to AMs, AOs and fellow depositaries around such solutions



BENEFITS

- Execution through open innovation ecosystem L'Atelier
- Partnership with a leading RegTech firm Fortia
- Several years of R&D in new tech applied to fiduciary services
- Excellent functional knowledge



SOLUTIONS

- Replatform with a new-generation solution and re-engineer our processes for greater efficiency.
- Introduce new technologies (AI and Machine Learning, Text mining) to design new funds compliance solutions
- Opening for new business model potentials



DATA AS A SERVICE



OBJECTIVES

- Provide a common client experience to clients when consuming our data across our organisation
- A single point of access to extract greater value from 'aggregated data'
- Provide a range of new products such as Data Management / Exploration / Analytics / AI data
- Services (honeycombs) are agnostic of data sources (including 3rd party source data)



BENEFITS

- Better manage risk
- Adapt investment
- Build and run own data reports
- Run "what if" scenario's

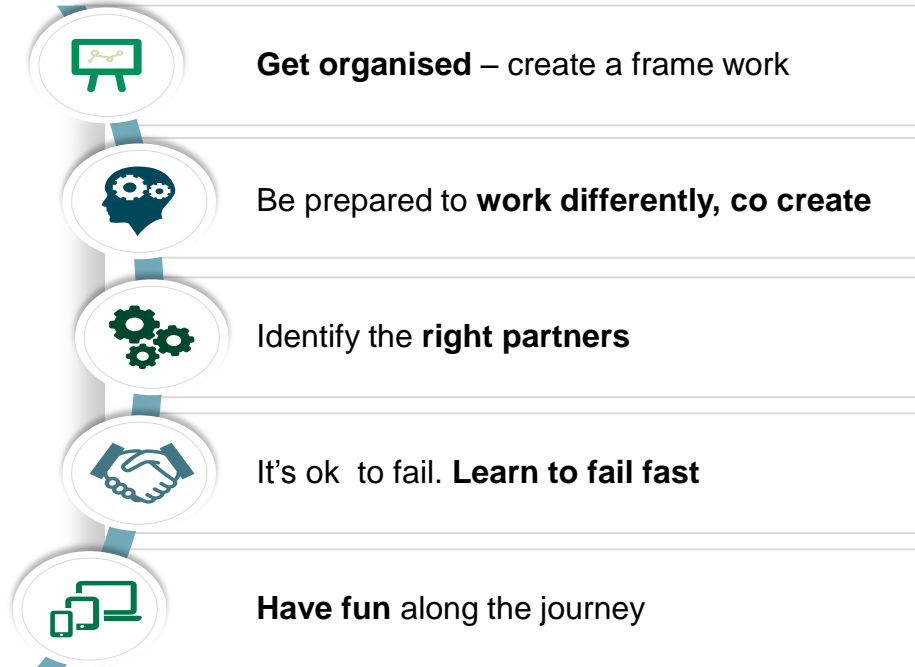


SOLUTIONS

- Delivering specific data services modules or honeycombs that our clients can select to create their customised solution
- An ecosystem of service outputs, where our institutional investor becomes a data explorer, visualising and interacting with their data.



WHAT WE HAVE LEARNT





THANK YOU



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