

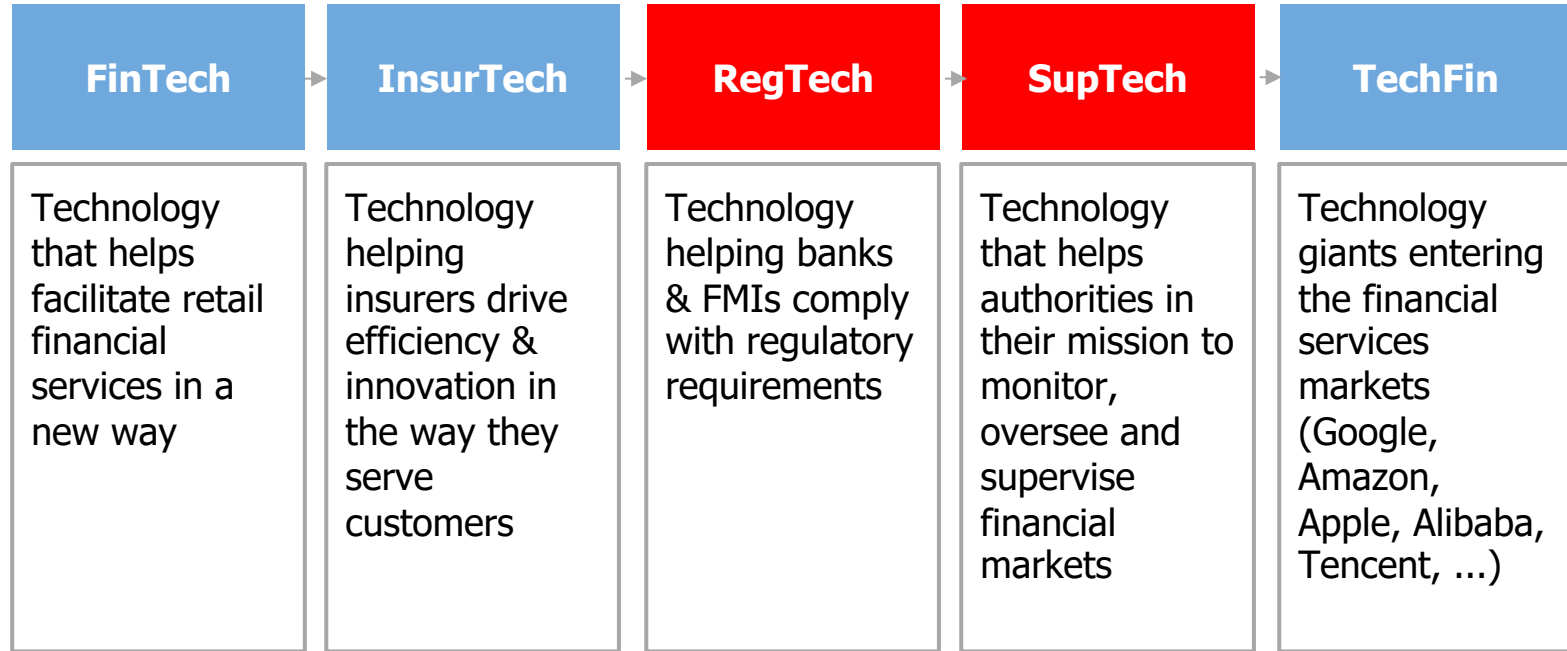


# FNA

Gaining Insights and Control by  
using Regulatory & Supervisory Technology

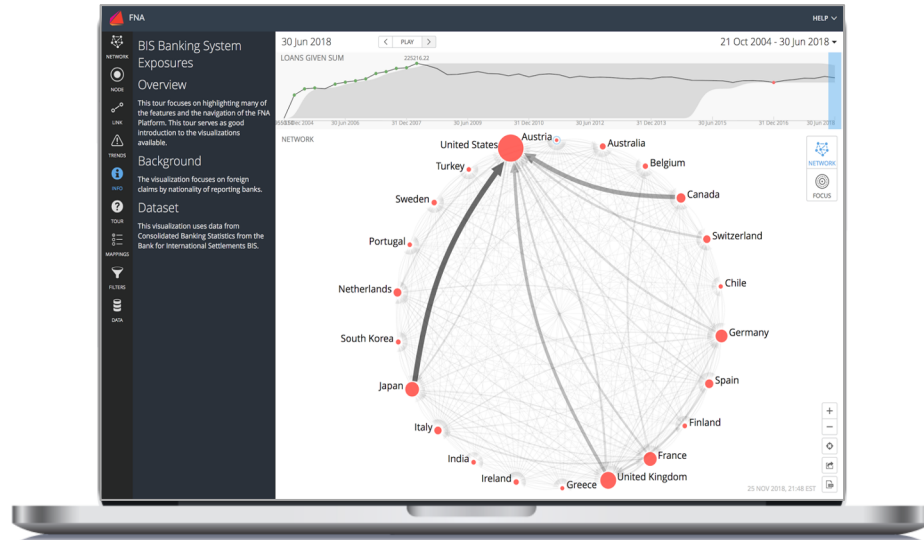


# Evolution of Terminology



# Drivers of Suptech

- **Increased complexity**
  - Global interconnectedness
  - Larger, digitalized financial institutions
  - New market entrants - rise of FinTech
  - Velocity of transactions
- **Higher expectations**
  - Digitalization
  - AI/ML
- **Increased data collection post-Lehman**
  - BCBS239, CCAR / SST, MIFID
  - EMIR, Derivatives TRs
  - SFTRs, Payments Data Repositories
  - Resolution & recovery data
  - Payments data repositories
  - CCP stress tests
  - Trade & communications surveillance



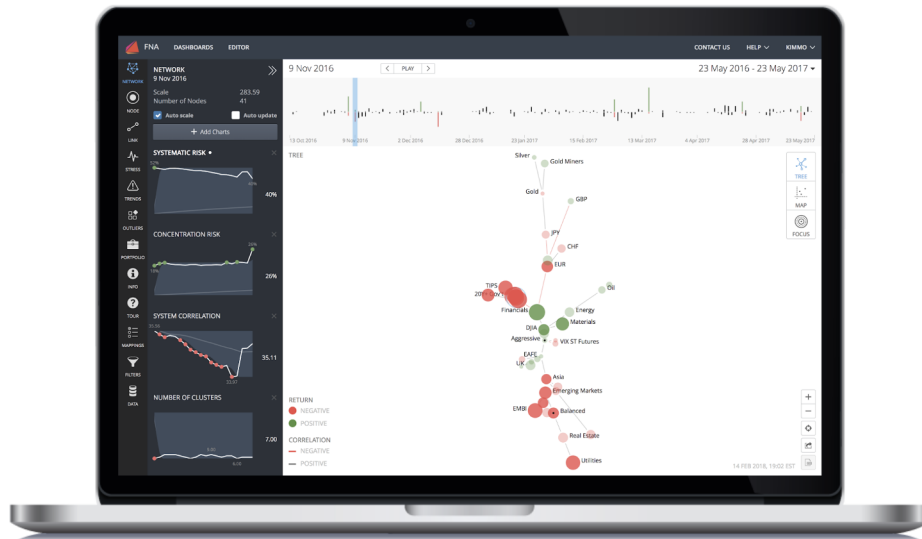
# Opportunities in Suptech

- **Enabling Technologies**

- AI/ML
- Robotic Process Automation
- Data Visualization
- Simulation/Agent Based Models
- Cloud

- **Outcomes**

- Less manual work
- From periodic to real-time monitoring
- From backward looking to predictive analysis
- Reduced risk & better insight
- Better communication
  - Internally within FIs
  - Between FIs and Supervisors





# Challenges in Suptech

- **Data**

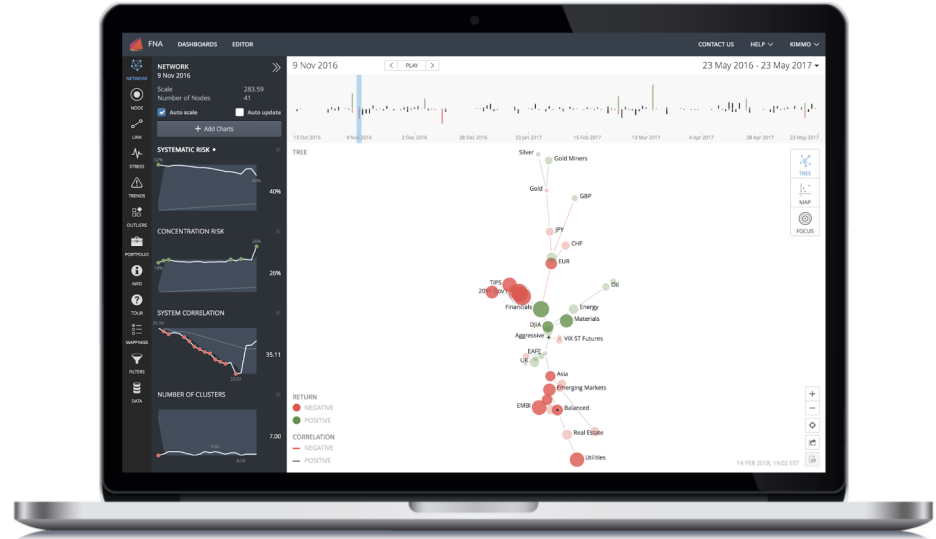
- Quality
- Access across organization(s)

- **Capabilities & Skills**

- Data Science
- Subject Matter
- Technology

- **Gap between Research & Production**

- Cool vs Useful
- Tools & Technology
- Decision making processes



# Engagement by Financial authorities

## Regulatory Sandboxes (many)

## Fintech/Suptech Officers/Offices

- MAS, HKMA

## Programs

- BoE Fintech Accelerator
- LabCFTC

## Own use

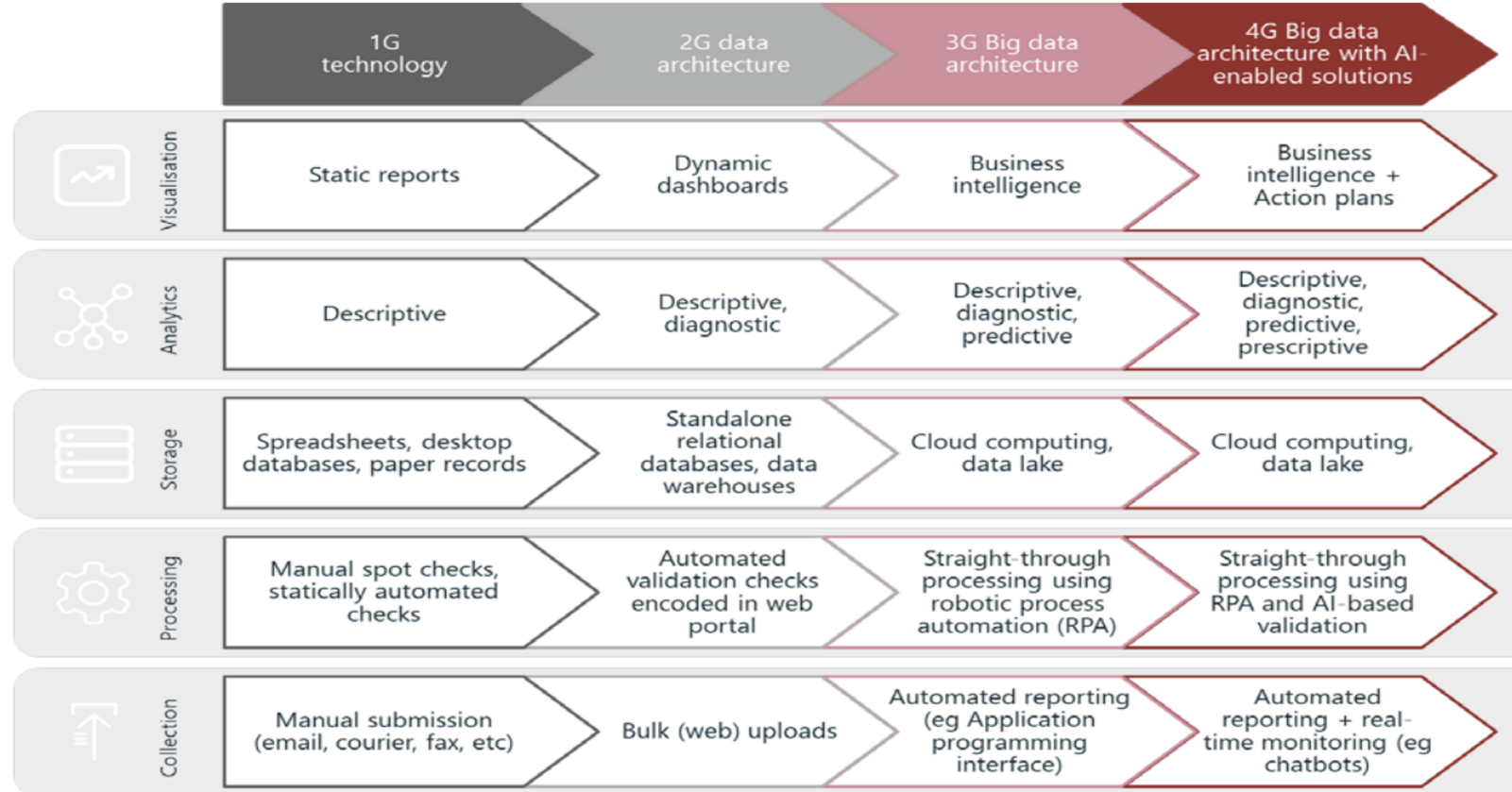
- Central bank cryptocurrencies
- Big data programs
- Suptech deployments

## Associations

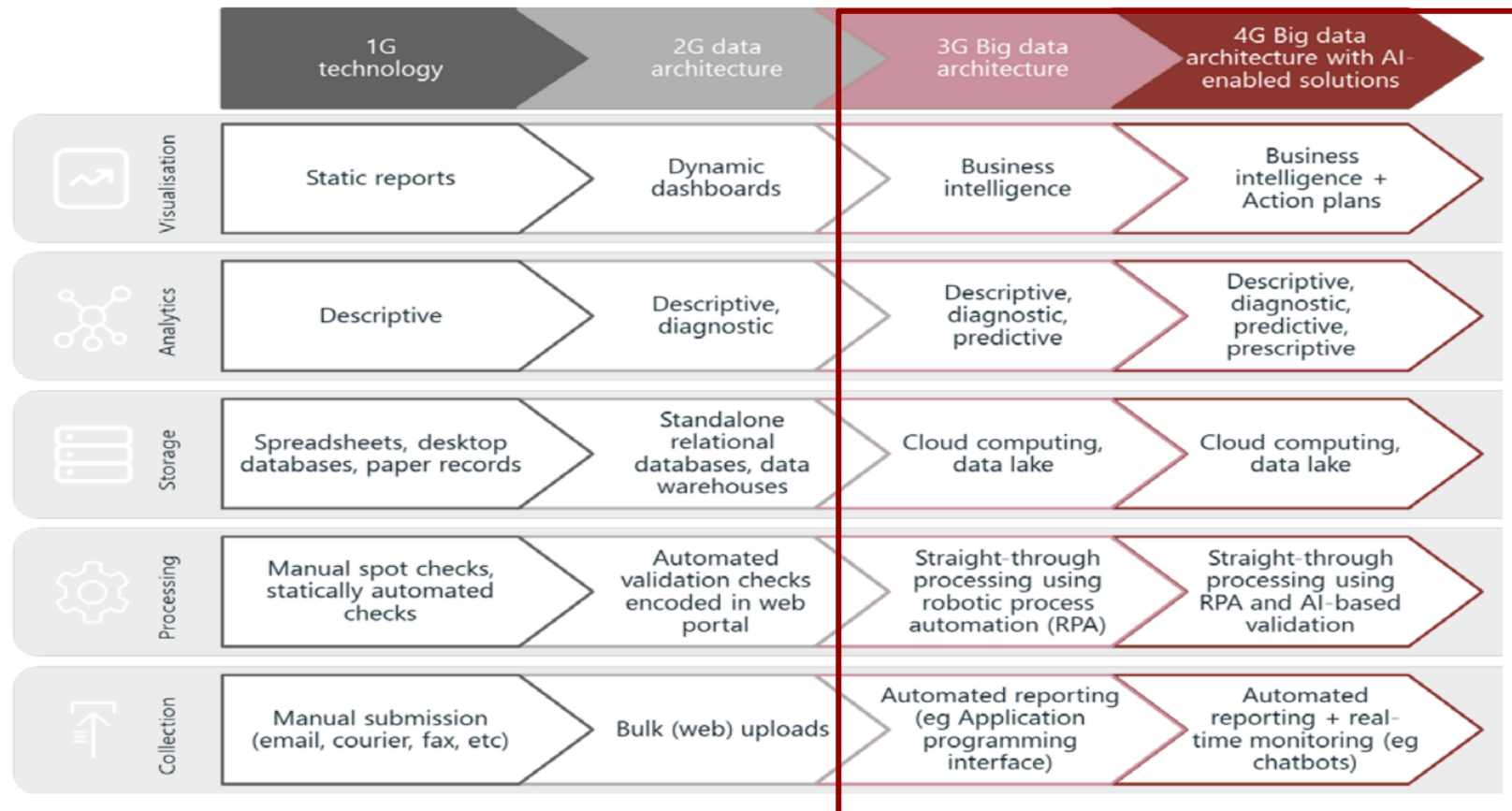
- IRTA
- Australian Regtech Association



# Technology Adoption in Supervisors



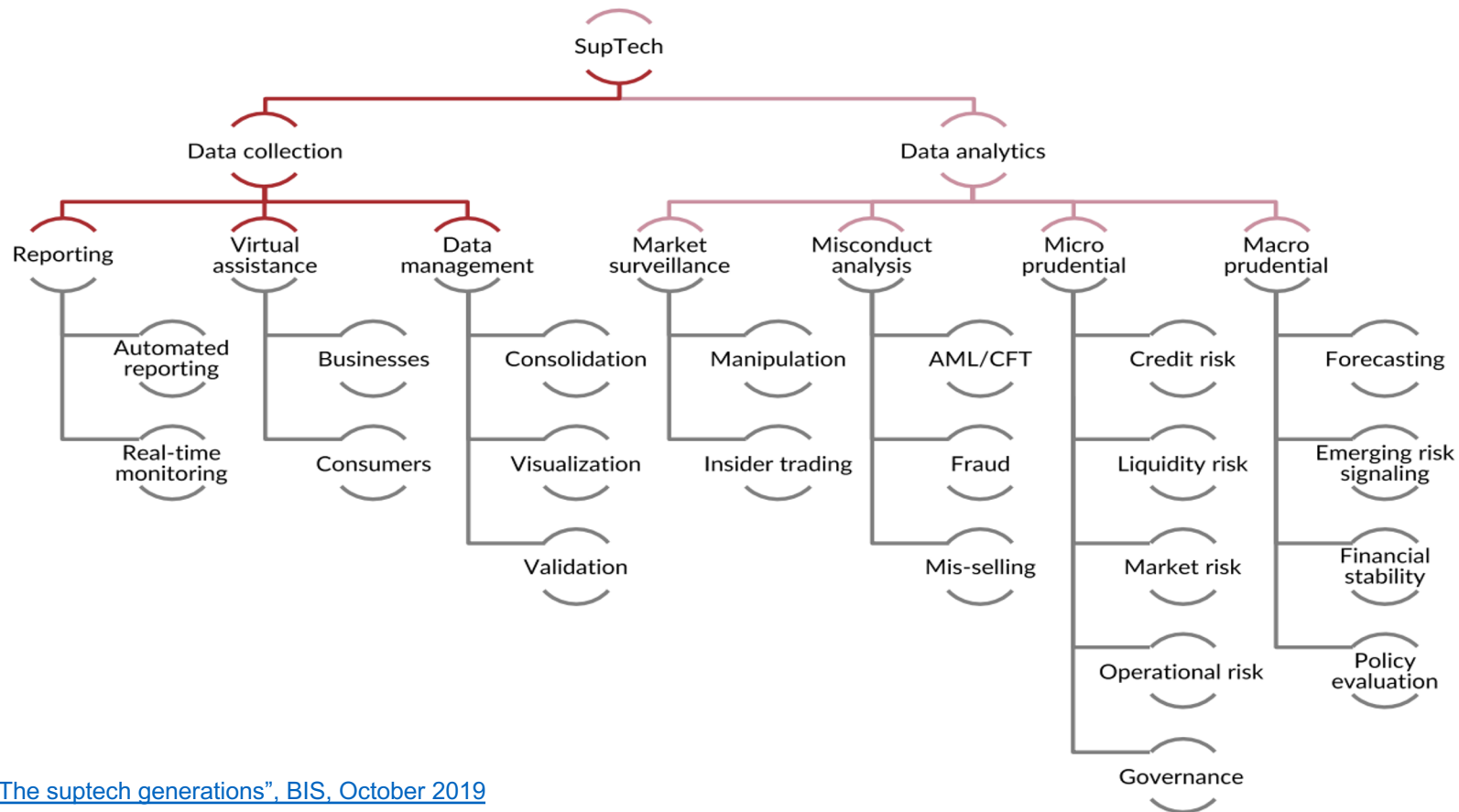
# Technology Adoption in Supervisors



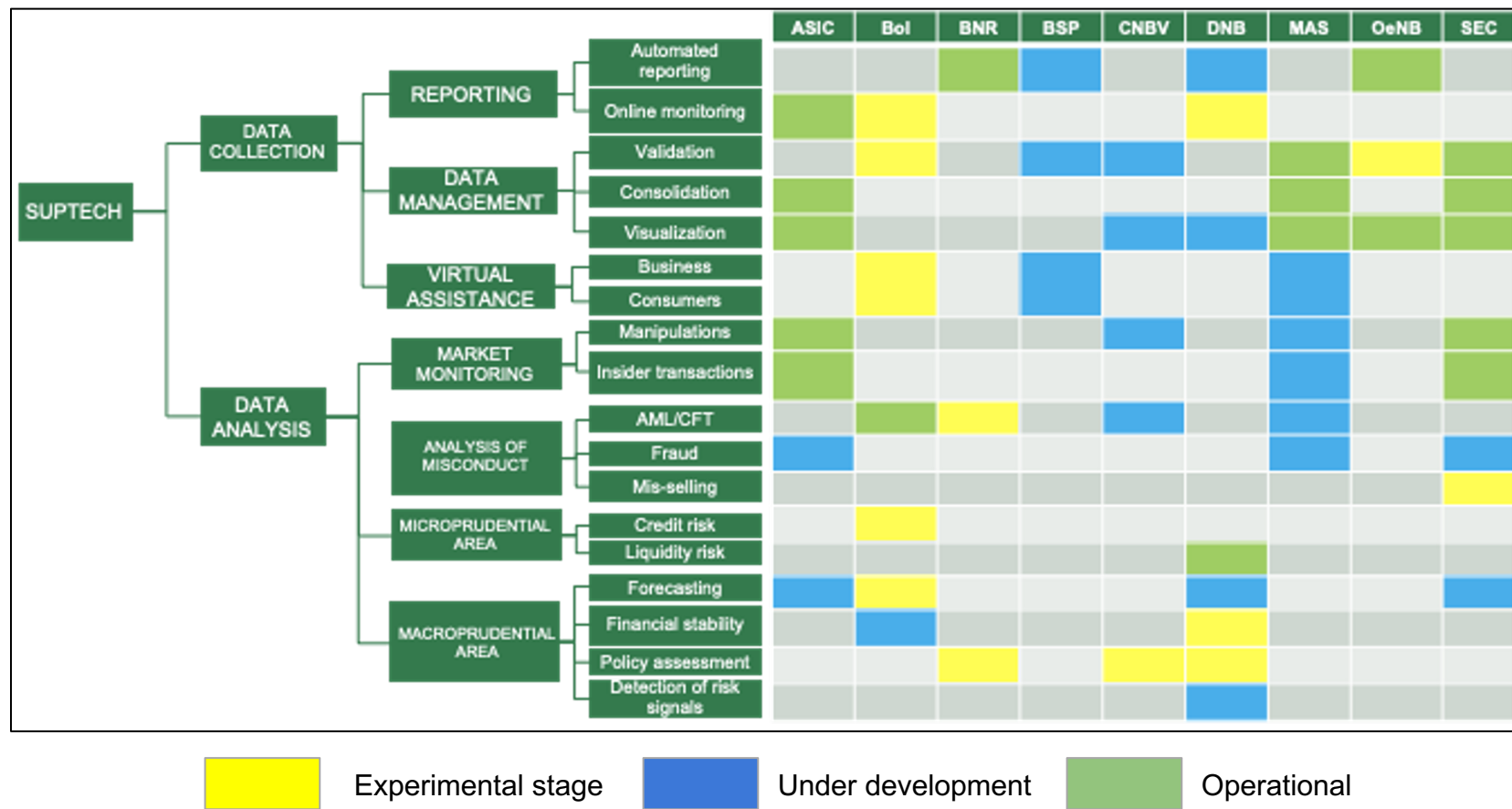
[“The suptech generations”, BIS, October 2019](#)

**Suptech**

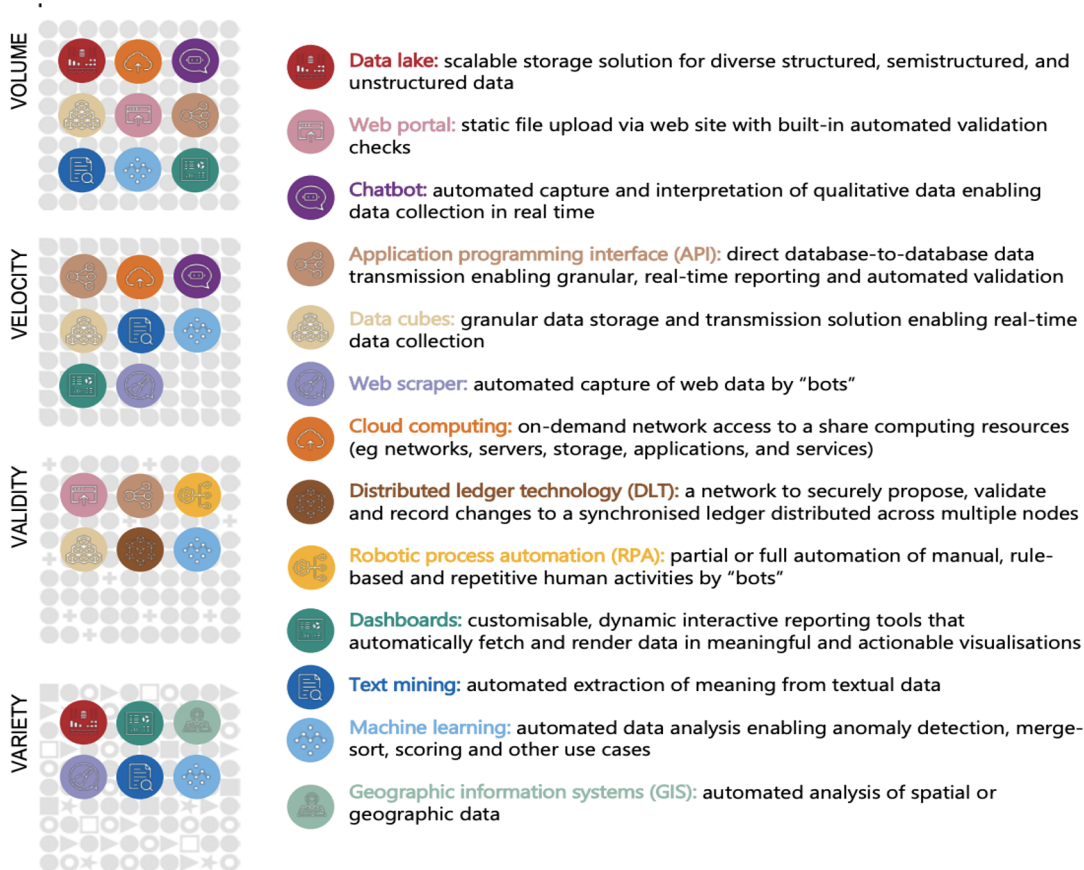
# Suptech Taxonomy



# Suptech Adoption in Selected Regulators

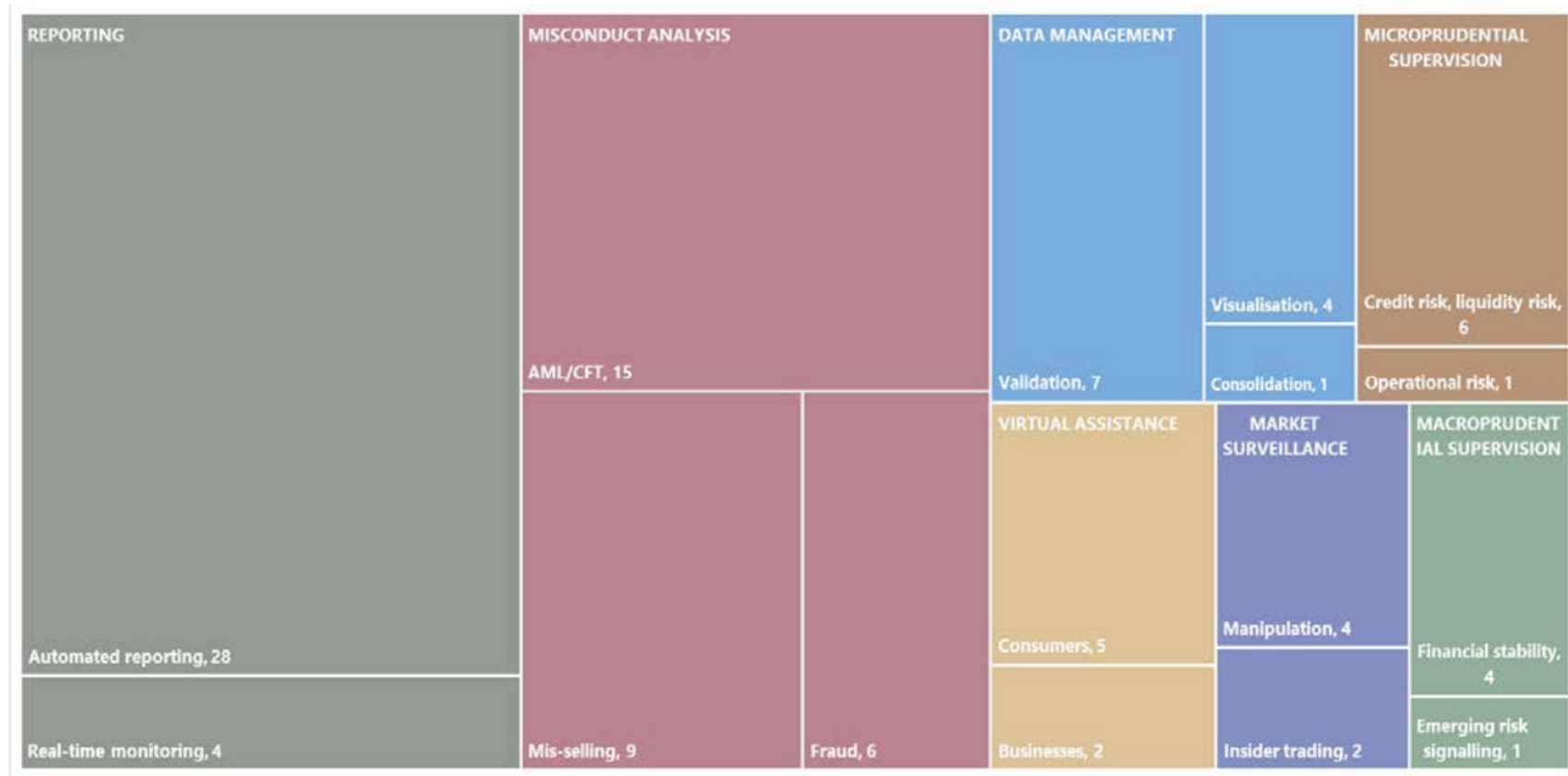


# Big Data & Related Applications - the 4 Vs



["The suptech generations", BIS, October 2019](#)

# Suptech Areas of Focus

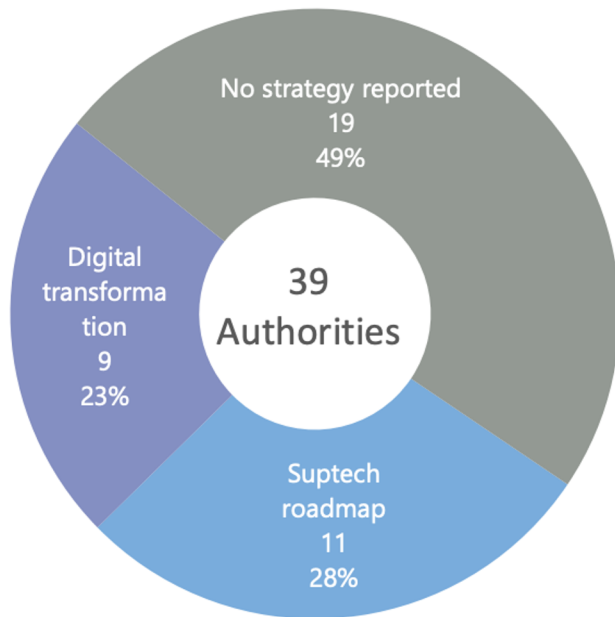


[“The supotech generations”, BIS, October 2019](#)



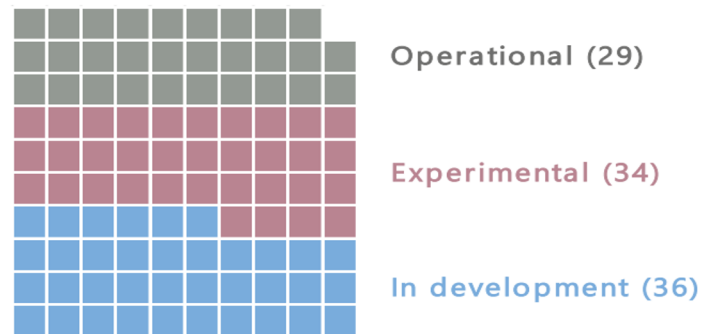
# SupTech Status

## SupTech Approach

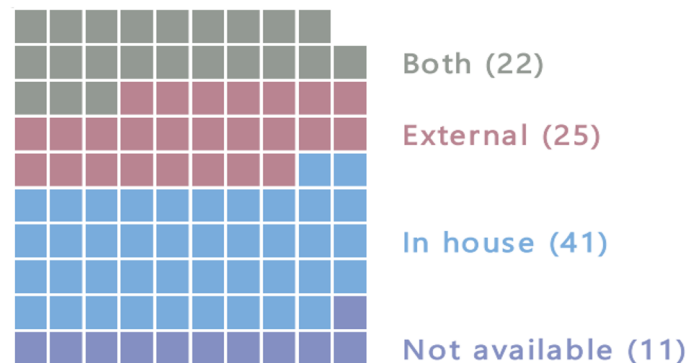


[“The suptech generations”, BIS, October 2019](#)

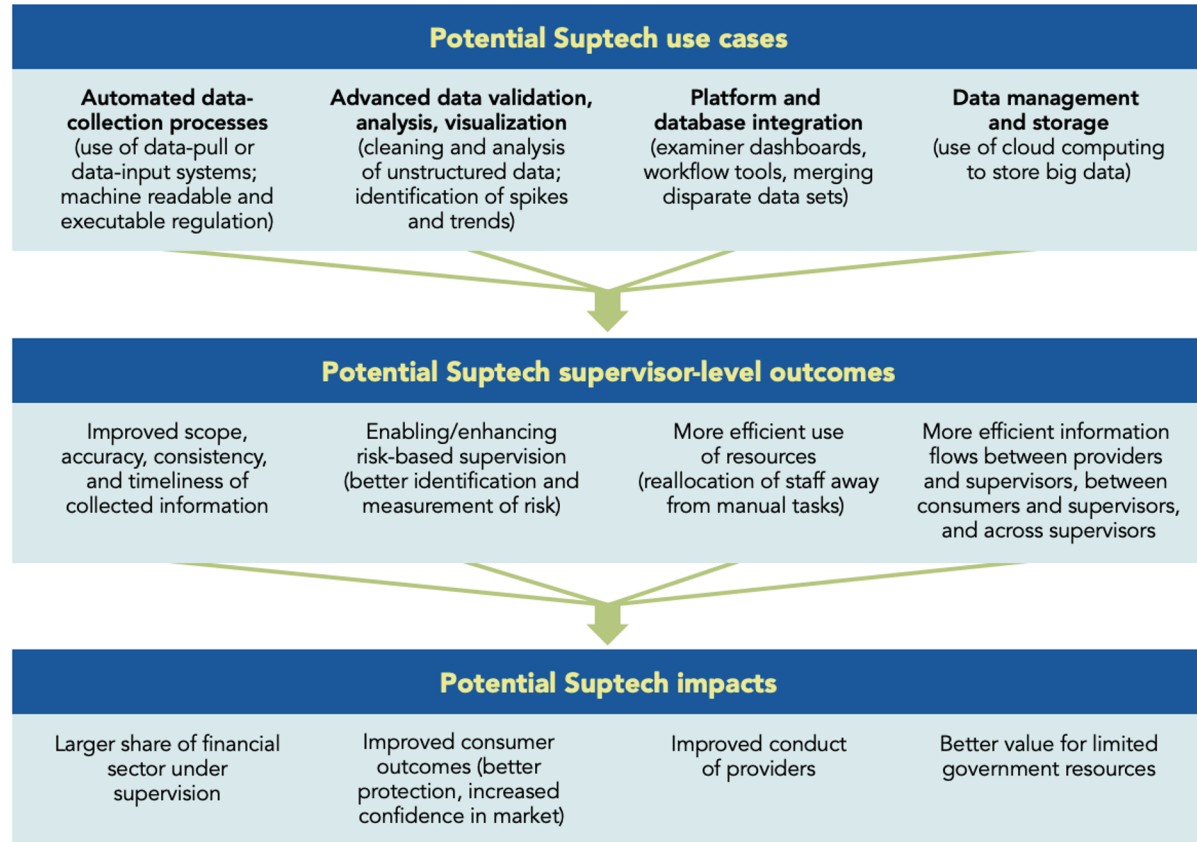
## SupTech Adoption



## Internal vs. External Technology



# Impacts of Suptech



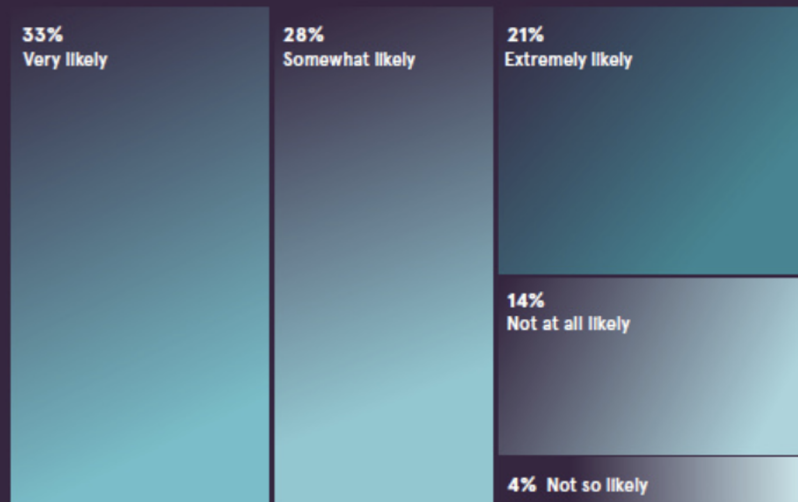
# RegTech Universe - budgets & underlying technologies

82% of financial institutions anticipate increased RegTech budgets

Analytics & AI are major focuses for future spend

## Regtech budgets

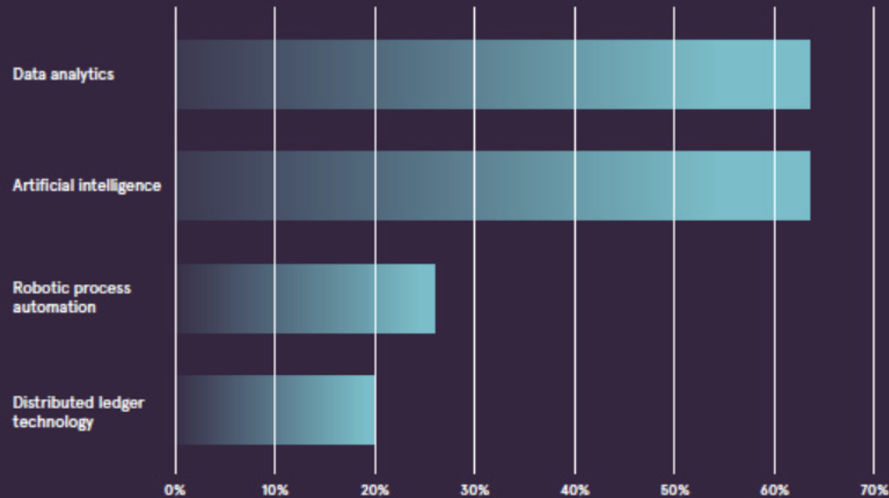
Likelihood of Increase in regtech budgets; global survey of financial services risk executives



Dow Jones/S&P 500 2017

## Underlying technology for regtech solutions

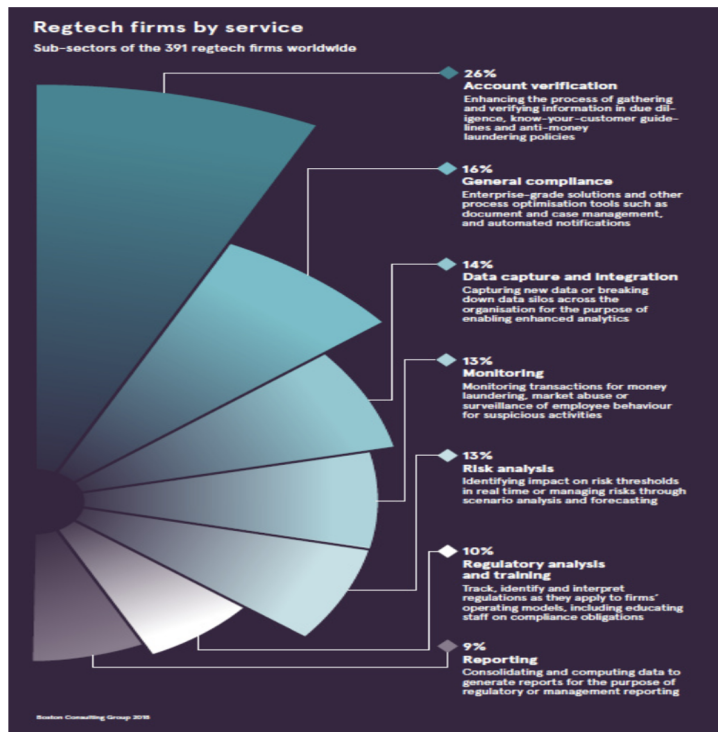
Survey of global regtech startups



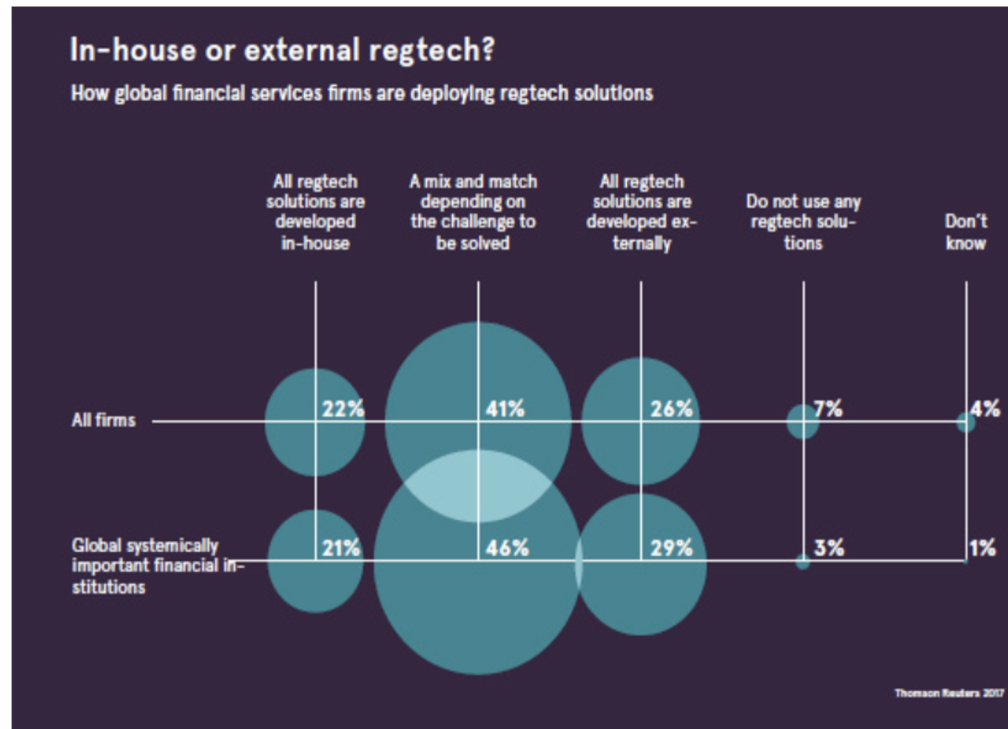
Alvarez and Marsal/Surround 2018

# RegTech Universe - solution types and internal vs. external

RegTech spend is spread across a variety of functional areas



RegTech solutions in many financial institutions are a mixture of in-house & external applications





# FNA

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