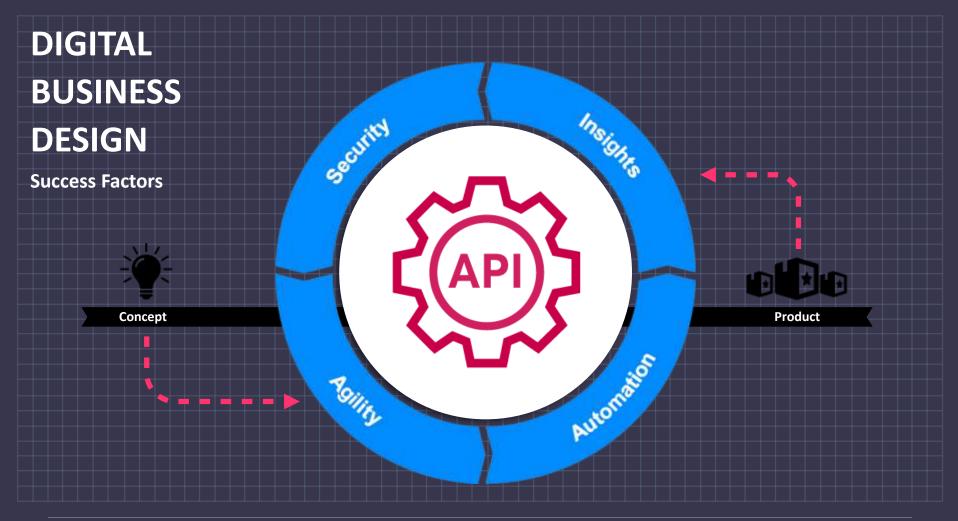


# API as the most critical technology in digital business design

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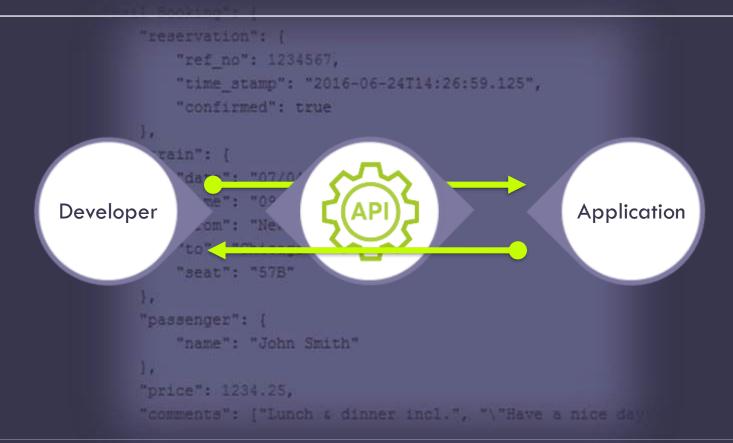
IAN CLARK VP, EMEA API MANAGEMENT SOLUTION SALES



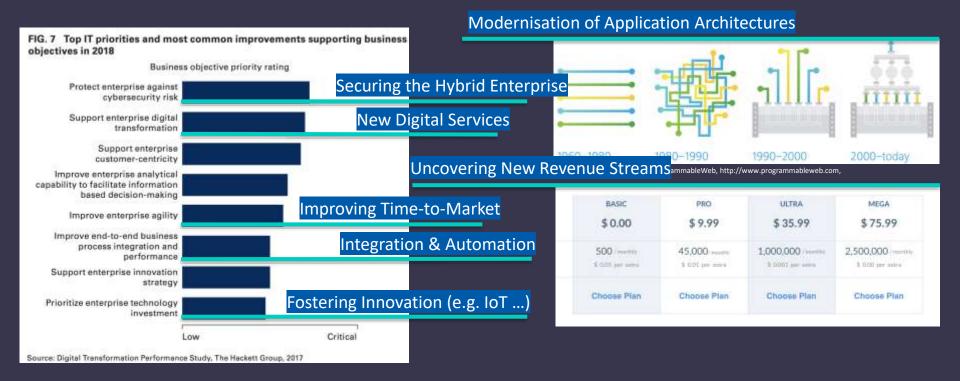


introducing ...

# What's an API?







# API Drivers across Industries

Example of API-led Transformation in:

# **Banking & Financial Services**



Source: Capgemini Financial Services Analysis, 2017; 2017 Retail Banking Executive Interview Survey. Capgemini Global Financial Services

Directive to Drive Innovation & Customer Convenience APIs as one of the most important pillars Offering both compliance and opportunity **API Omnipresence** 

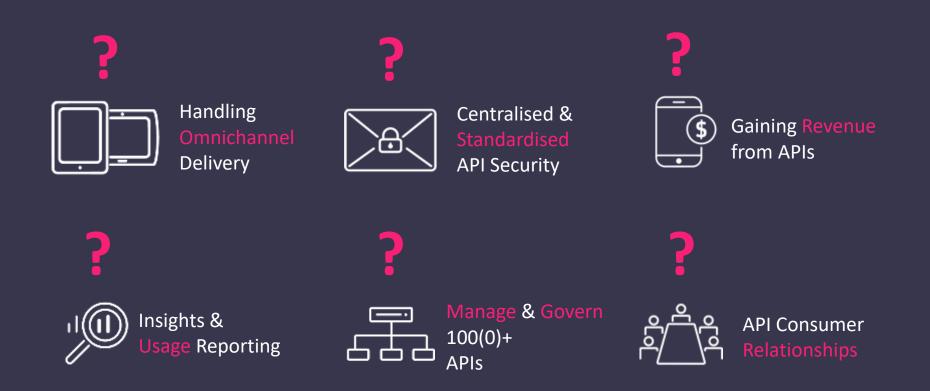
# **API Drivers across Verticals**



# API Strategy concerns & considerations

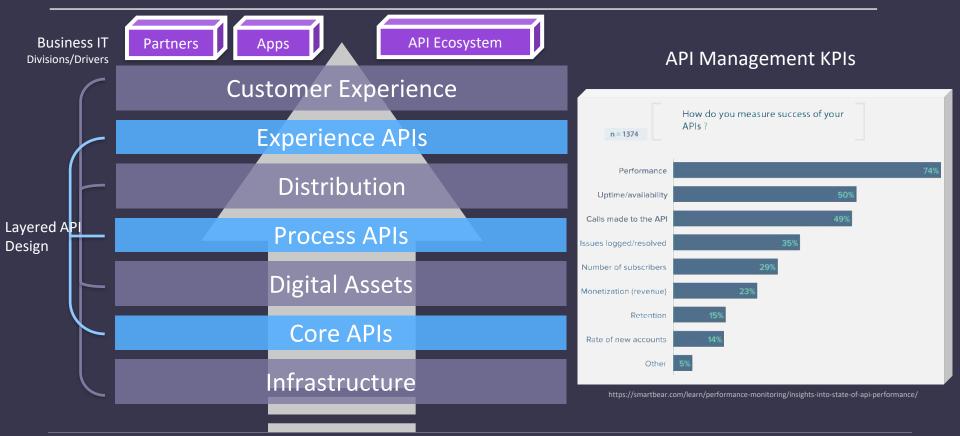
**API Strategy** 

Concerns



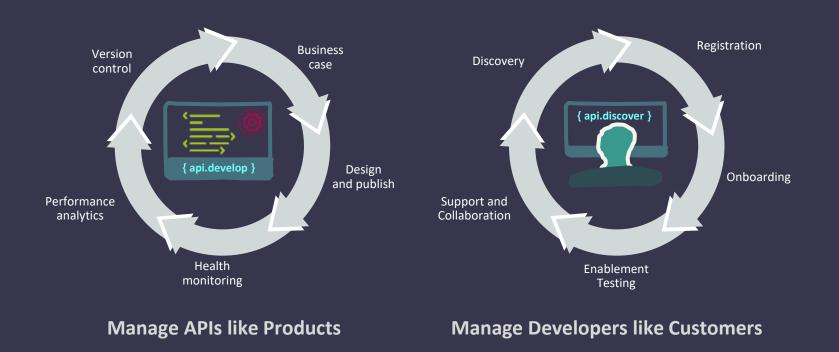
API Strategy Consideration (1)

# **Adopt an API-First Business**



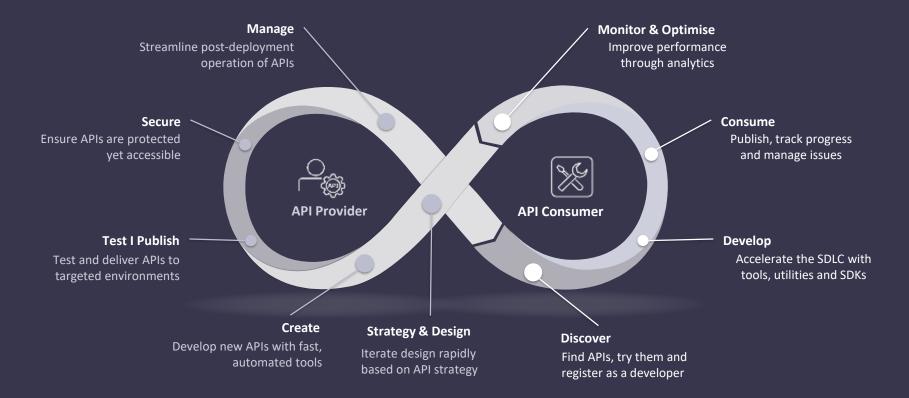
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## Manage APIs and the Developer Lifecycle Independently



API Strategy Consideration (3)

### **Build a Full Lifecycle API Management**

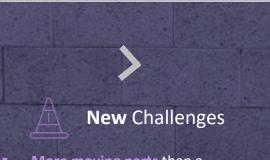


# Leverage Microservices for **<u>speed</u>** and **<u>safety</u>** at <u>scale</u>



#### Monolithic system

- Generally easier to build, **initially**
- Generally easier to test against, initially
- Difficult to maintain
- Slower to iterate
- Difficult to scale
- More difficult to innovate with
- Difficult to insert new programmers against due to a steep learning curve



- More moving parts than a monolithic app, so it's important to monitor
- More modern back–end infrastructure requirements
- More difficulty testing the complete app
- New security requirements that need to be addressed on behalf of endpoints

#### **Microservices** Architecture

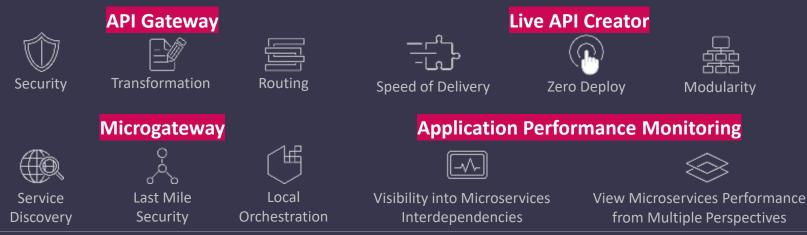
- Better architecture for larger applications
- More agile solution as easier to pivot segments of an application
- Easier to learn: each component is small and isolated
- Easier to scale: only the components that need improved scalability are affected

# Leverage Microservices for **<u>speed</u>** and **<u>safety</u>** at <u>scale</u>

#### Goals

- Assess the maturity of the agile enterprise
- Create smaller groups of developers
- Adopt a domain–driven design & break down large applications

#### **Critical CA Tools for Microservices**









Business Processes as an API/API-as a Product/Transactional APIs (151)

ME / Voice APte (22)	Fun / Mail (9)	Email APIs (20)	Search Engine APIe (5)	Paymente APto (25)	Accessiting API (20)	APts (4)	AL APIx (4)	Data-an a-merice/Mexaging (90)	Online Ferms(2)
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#### API Lifecycle platform (78)

DESIGNED BY

Mehdi Medjaoui



#### Backend Building Tools/MBaaS (14)



#### API Abstraction / Integration Platform (32)



# **APIs are the Building Blocks**

of Digital Transformation

