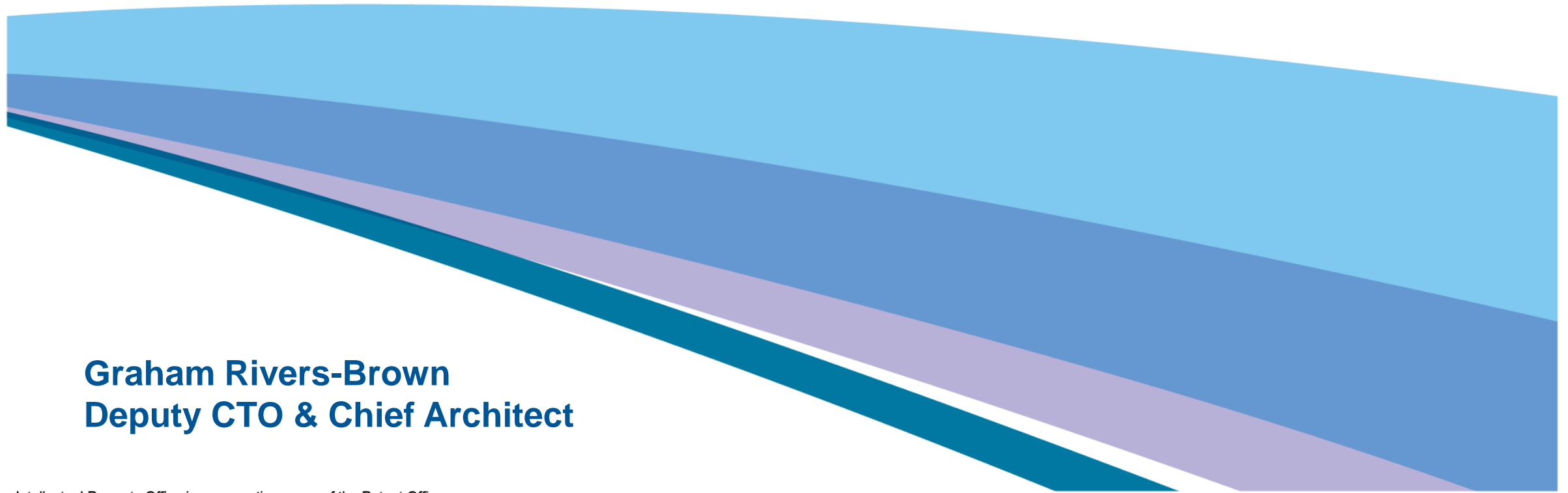# UK IPO: The Quest for Digital

Graham Rivers-Brown
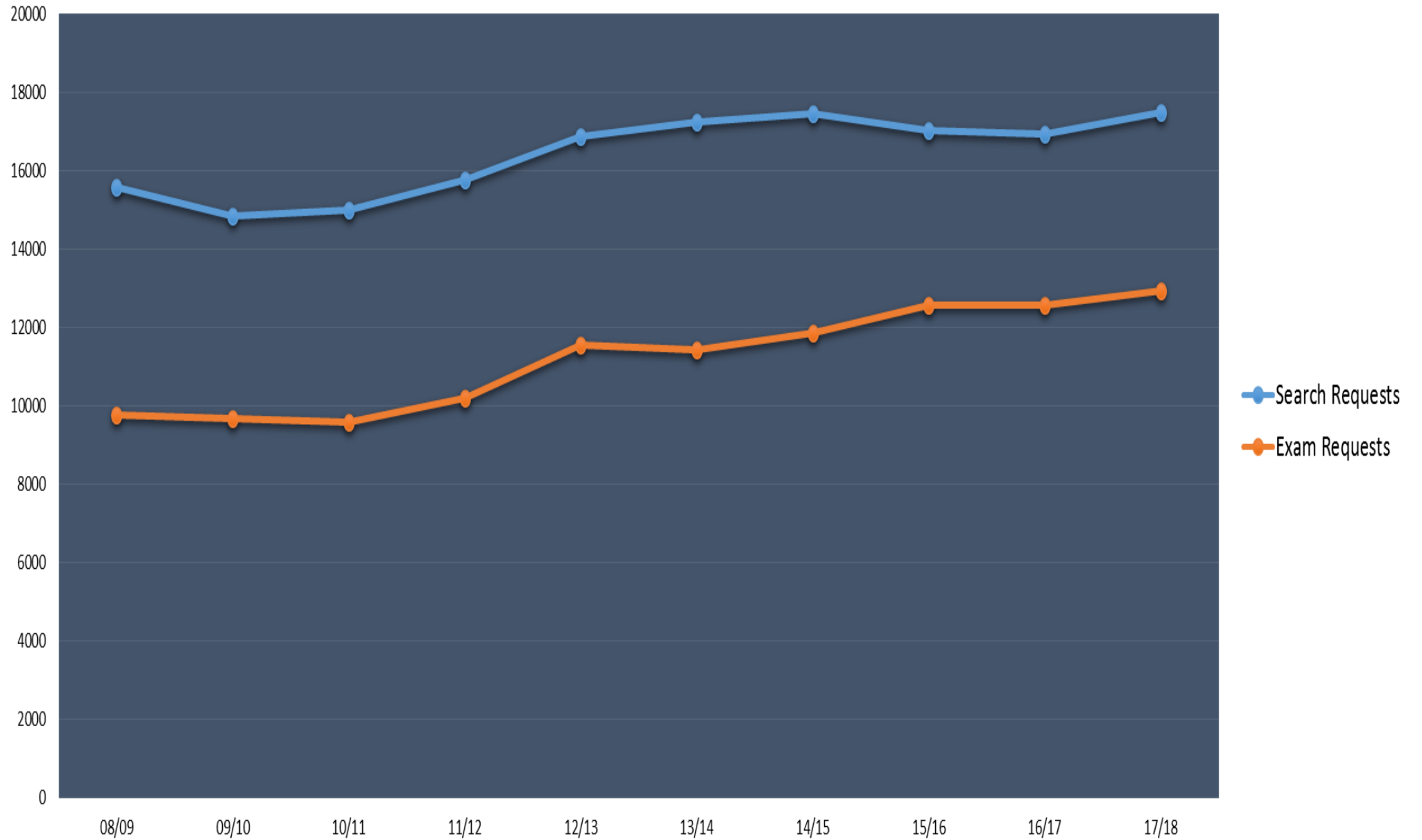**Deputy CTO & Chief Architect**

What we're trying to solve (the business problem)

- Cope with demand

- Improve business agility
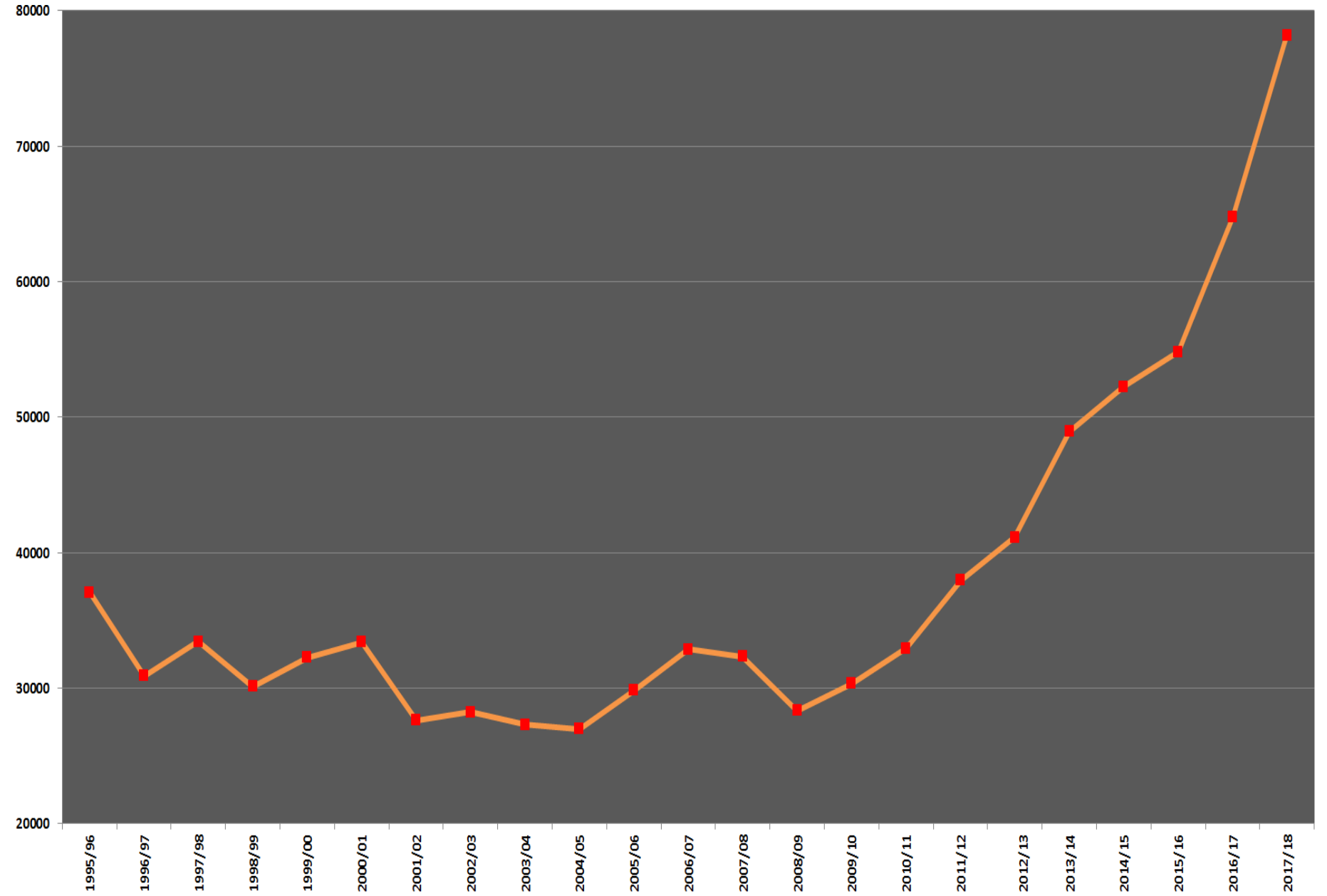
- Deliver services Digitally

- Shift to "One IPO"
  - Independent of Right

- Service first approach
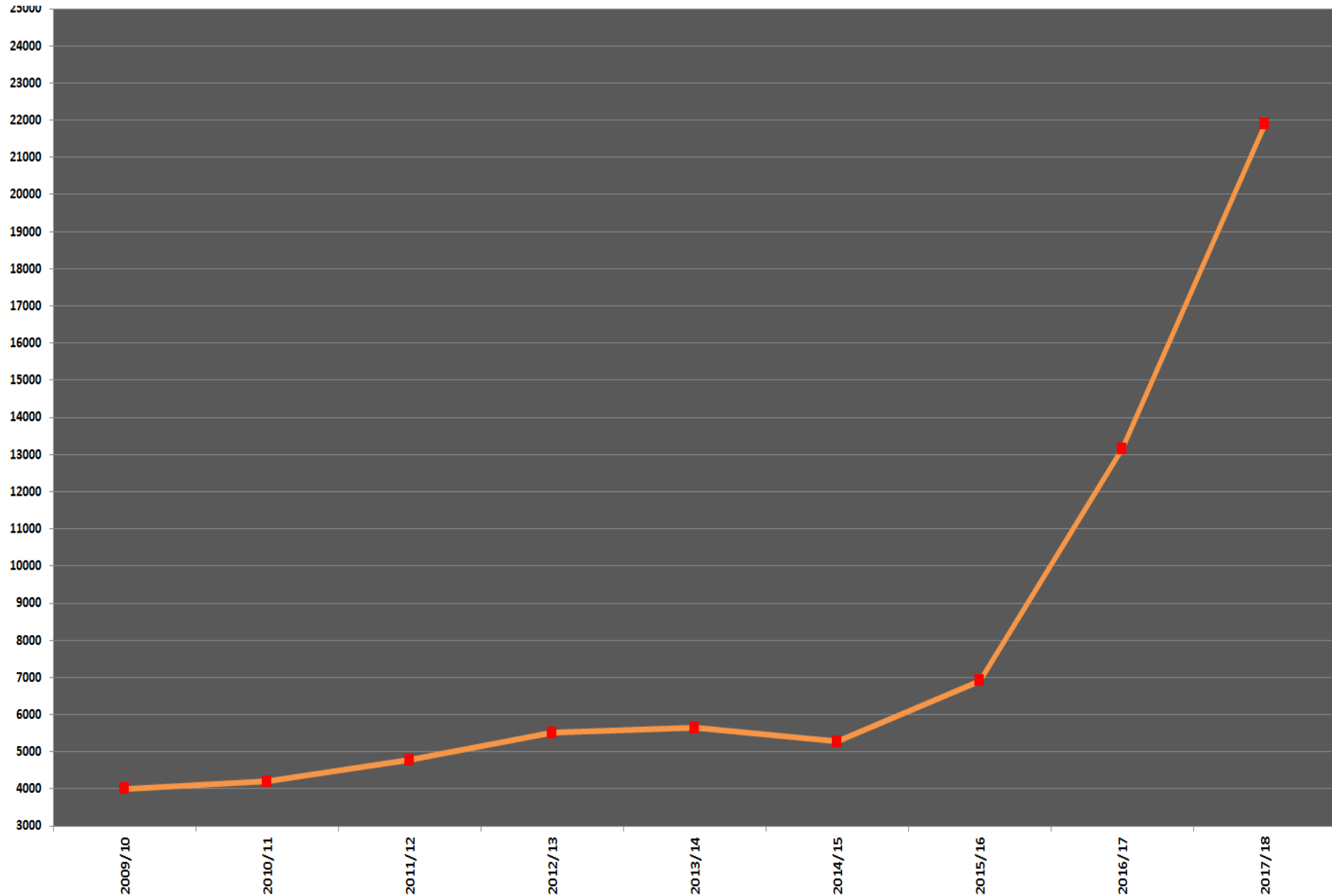 - Enterprise-wide Renewals service

Patents Search and Exam – 2009 to 2017

Trade Mark Applications – 1995 to 2017

Designs Applications – 2009 to 2017

What we're trying to solve (the technology problem)

- Disparate systems
- Disparate data

- Aging hardware
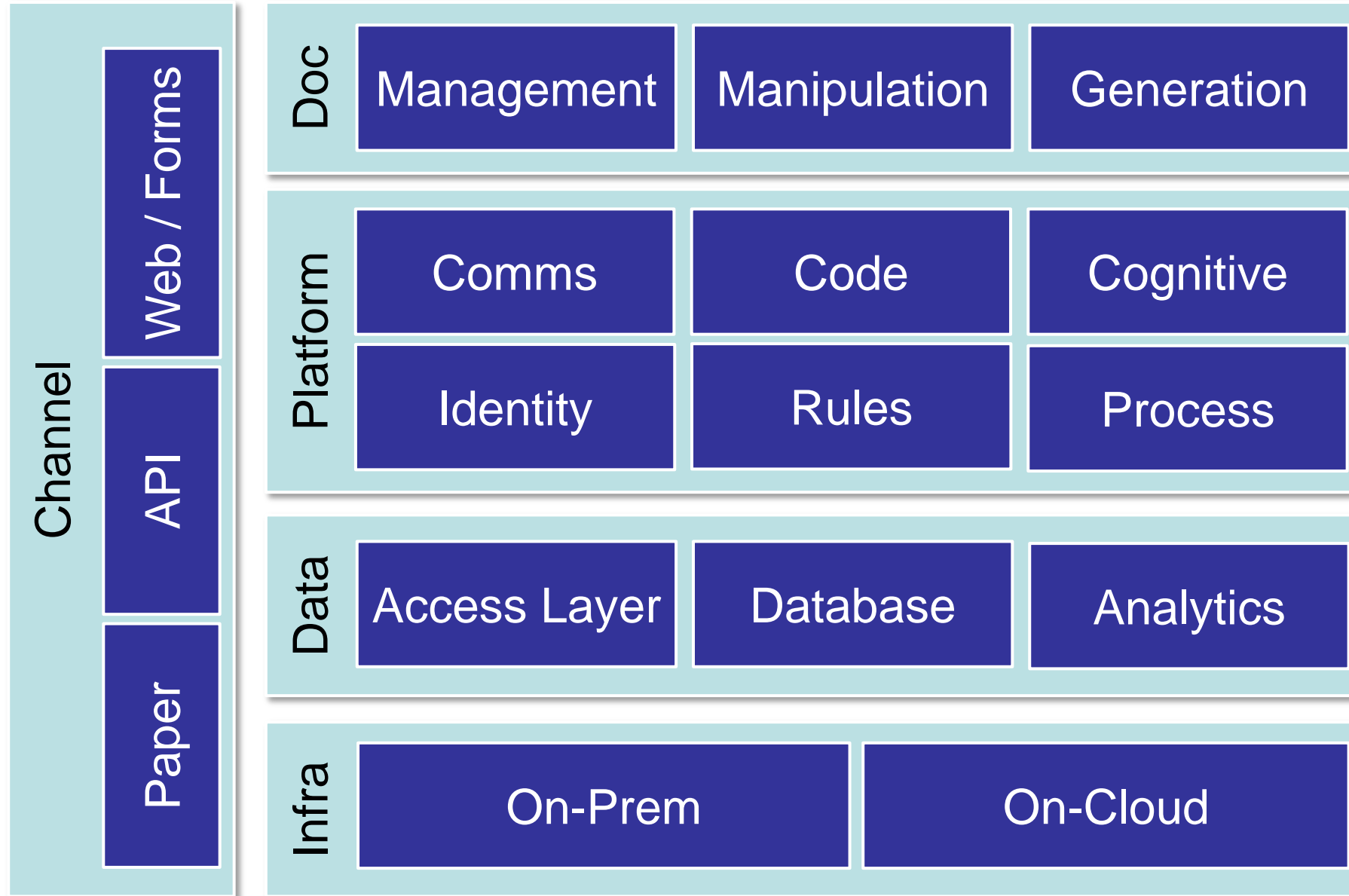- Aging software

- Reliability and resiliency issues

- Poorly documented systems
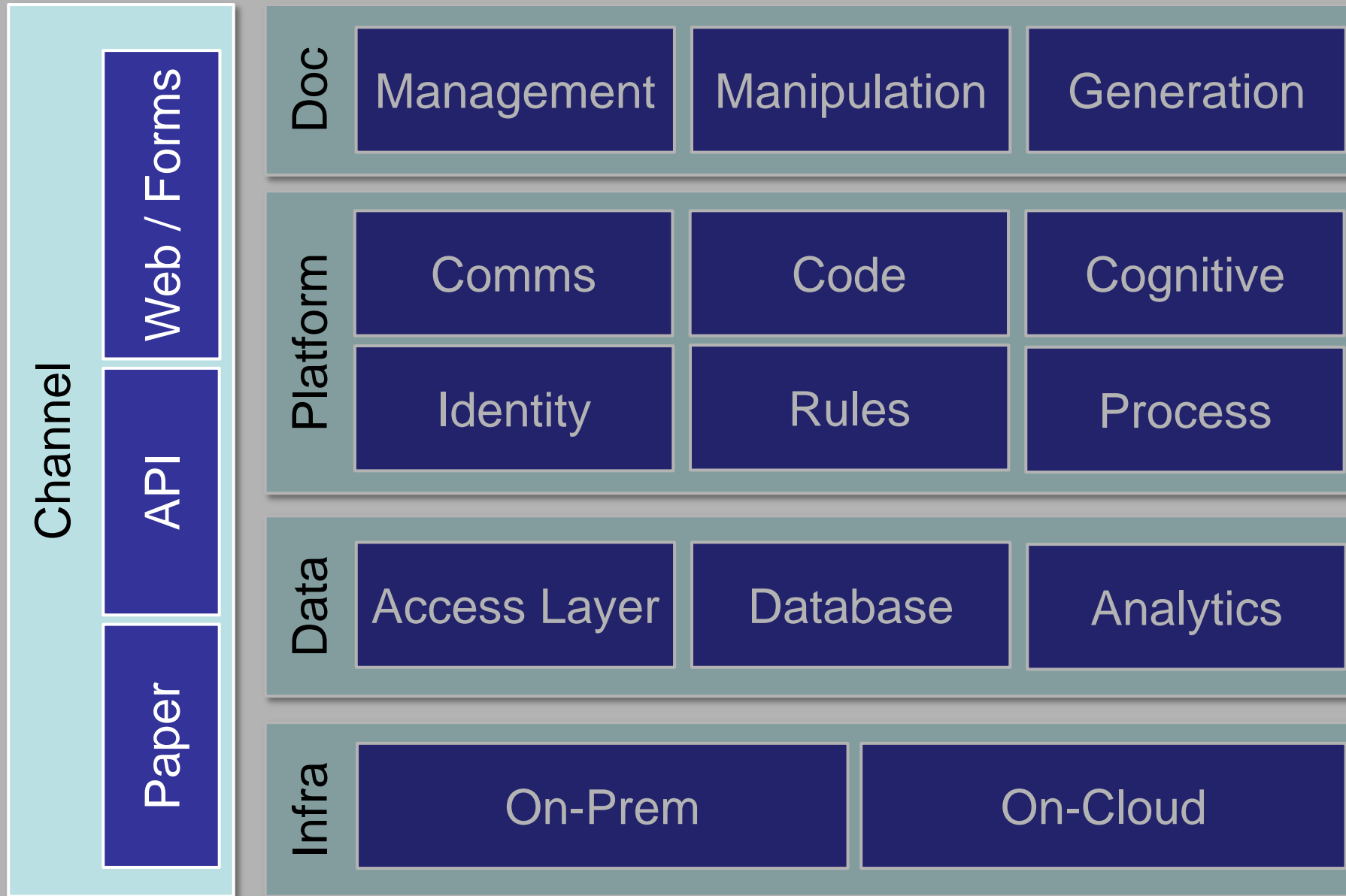- Many technologies = many skillsets

Not Our First Attempt

- 1st Generation
  - Hand-coded, grown organically

- 2nd Generation
  - Customise off-the-shelf

- 3rd Generation
  - Single Product/Solution

- 4th Generation
  - Component-based approach

The Platform

The Platform

The Platform

Channel
- Web / Forms
- API
- Paper

Doc
- Management
- Manipulation
- Generation

Platform
- Comms
- Code
- Cognitive
- Identity
- Rules
- Process

Data
- Access Layer
- Database
- Analytics

Infra
- On-Prem
- On-Cloud

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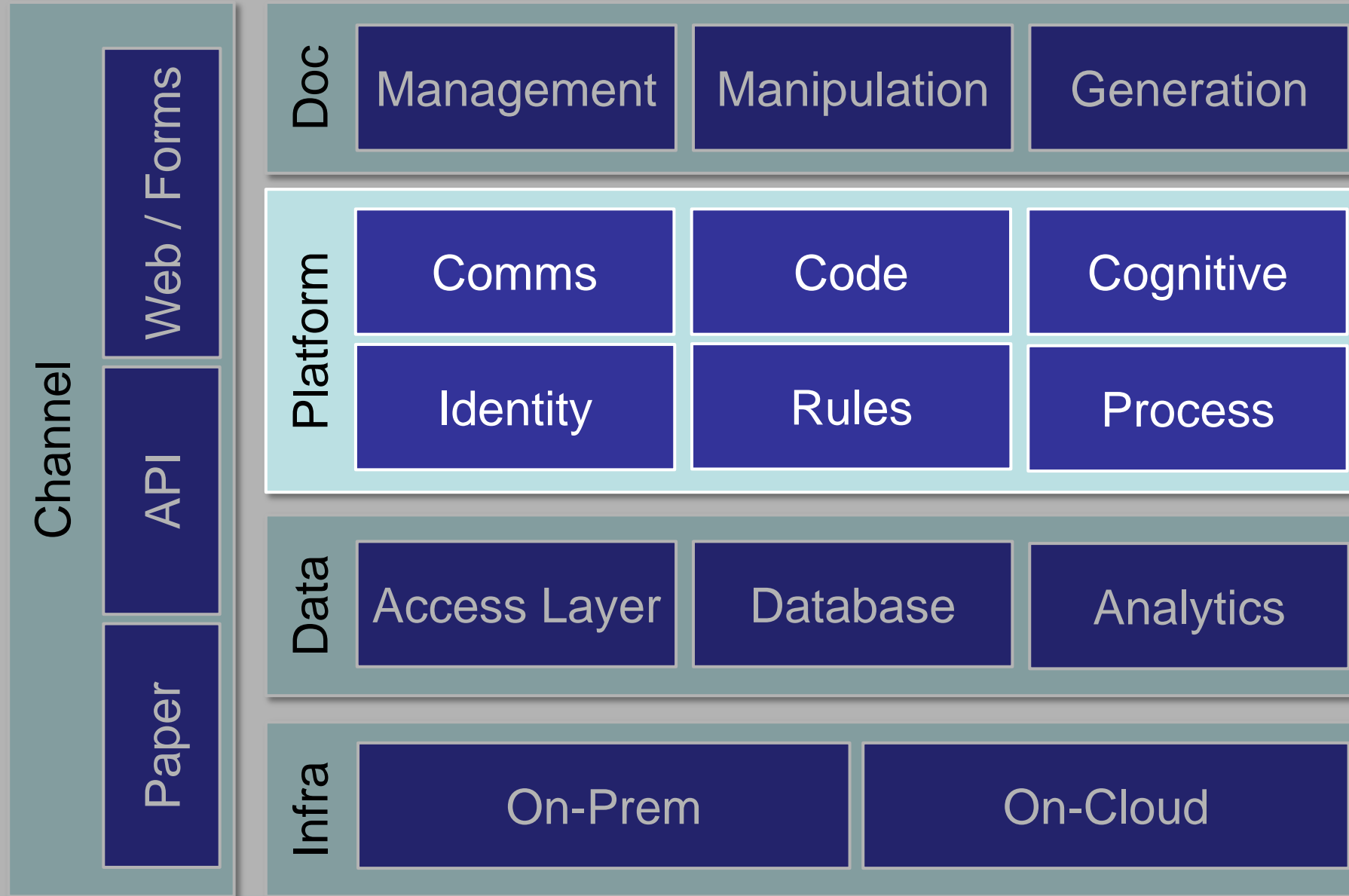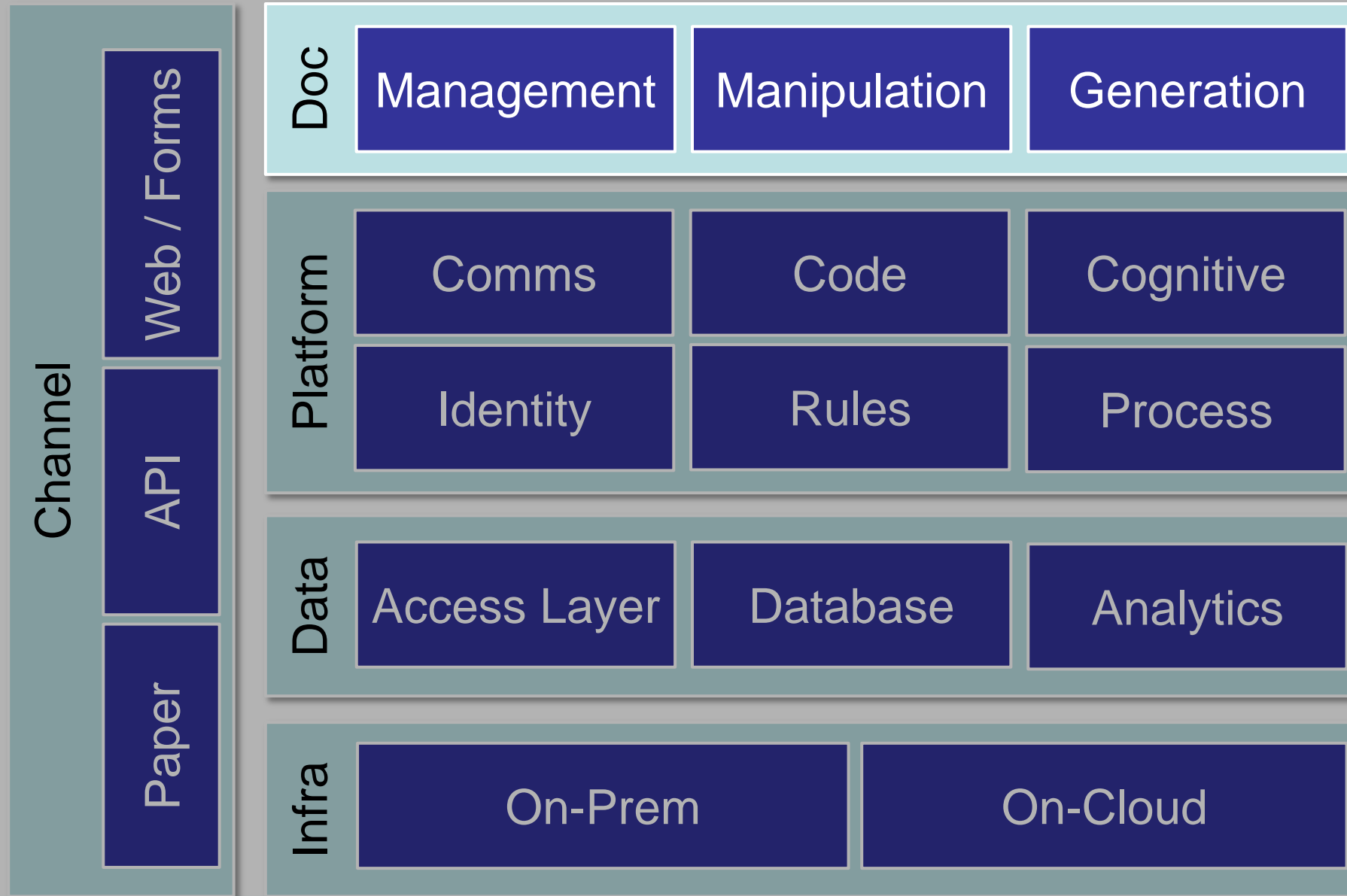| Channel		Doc	Management	Manipulation	Generation
	Web / Forms				
	API	Platform	Comms	Code	Cognitive
			Identity	Rules	Process
	Paper	Data	Access Layer	Database	Analytics
		Infra	On-Prem		On-Cloud

The Platform

What's Next

- Rolling out the platform for Trade Marks
  - Tactically to support BREXIT, iterate for Strategic benefits

- Rolling out Renewals on the new platform as an Enterprise service

- Technology
  - Containerisation (Docker / Kubernetes)
  - Mature Multi-Cloud