UK IPO: The Quest for Digital

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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

Search Requests

Exam Requests
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

- **1\textsuperscript{st} Generation**
  - Hand-coded, grown organically

- **2\textsuperscript{nd} Generation**
  - Customise off-the-shelf

- **3\textsuperscript{rd} Generation**
  - Single Product/Solution

- **4\textsuperscript{th} Generation**
  - Component-based approach
The Platform

Channel

Doc
- Management
- Manipulation
- Generation

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

Data
- Access Layer
- Database
- Analytics

Infra
- On-Prem
- On-Cloud

Paper

API

Web / Forms

On-Cloud
The Platform

- **Channel**
  - Paper
  - API
  - Web / Forms

- **Data**
  - Access Layer
  - Database
  - Analytics

- **Platform**
  - Comms
  - Code
  - Cognitive
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- **Doc**
  - Management
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- **Infra**
  - On-Prem
  - On-Cloud

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**On**-Cloud

**On**-Prem
The Platform

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

- **Channel**
  - API
  - Paper

- **Doc**
  - Management
  - Manipulation
  - Generation

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

- **Data**
  - Access Layer
  - Database
  - Analytics

- **Infra**
  - On-Prem
  - On-Cloud
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