

ORDNANCE SURVEY

DATA CAPTURE TRANSFORMATION: THE WHY, THE WHAT & THE HOW

Jo Shannon

28th September 2021

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THE WHY



The why



Customer drivers

- More detailed specification for Land Use Cover, buildings and roads.
- More use cases to cover innovation and building information modelling
- Greater currency, moving from 3 years to 2 years in all areas



Agile & Flexible

- Iterative delivery - Web based solution allows UI updates to be released with little interruption to users
- Ability to change our data model frequently with little or no business impact



Efficiencies

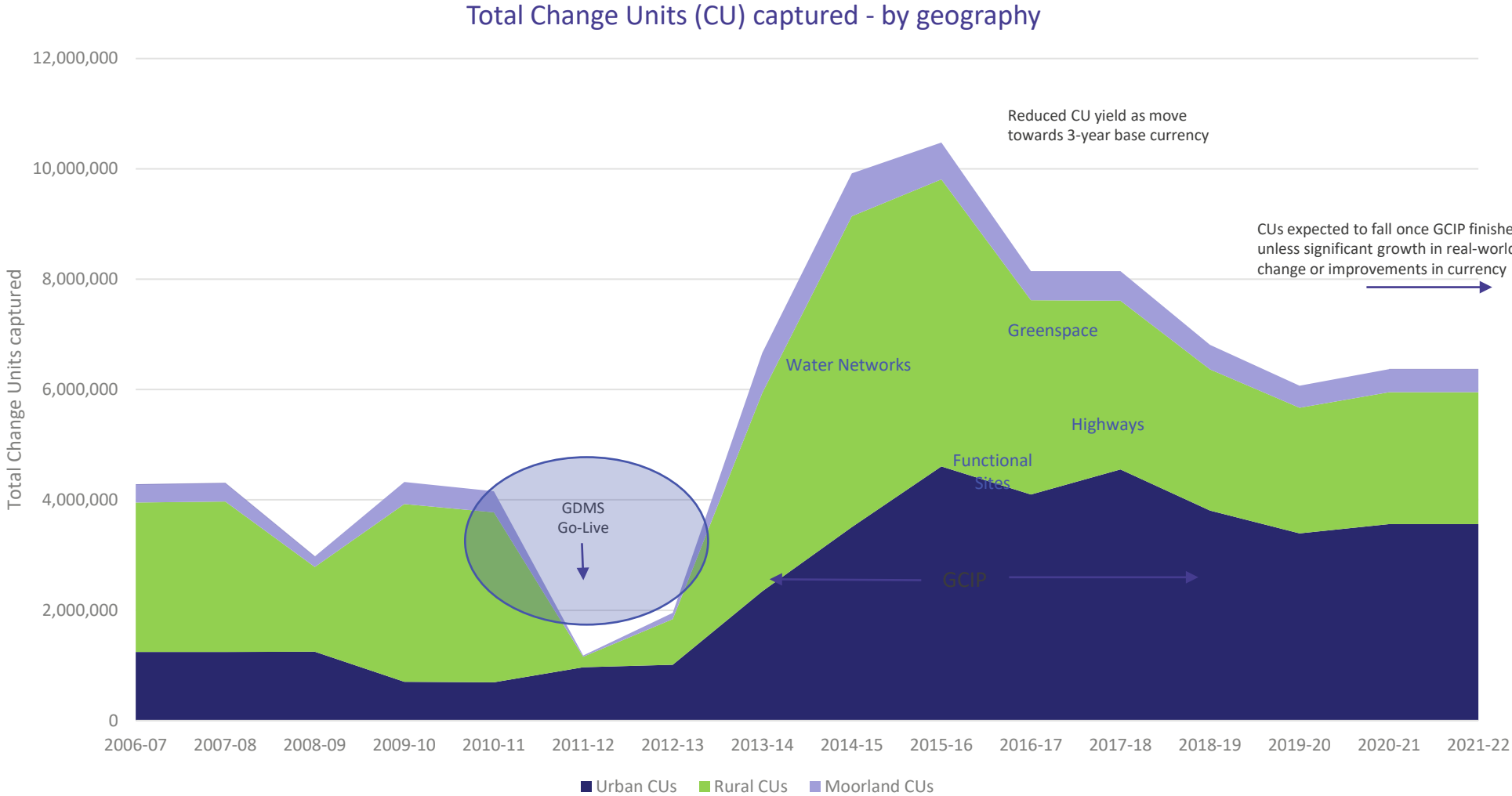
- Production planning – Change Information and evidence presented to users in a clear uniform format enabling informed job creation
- Scheduling - Visualize & monitor progress
- Workflow management toolsets – bulk operations, sampling



Extendable

- Front end functionality is extendable through the creation of widgets using the ArcGIS API for JavaScript and Dojo
- ArcGIS Workflow Manager is used as a framework to build business specific process onto

Our previous transformation

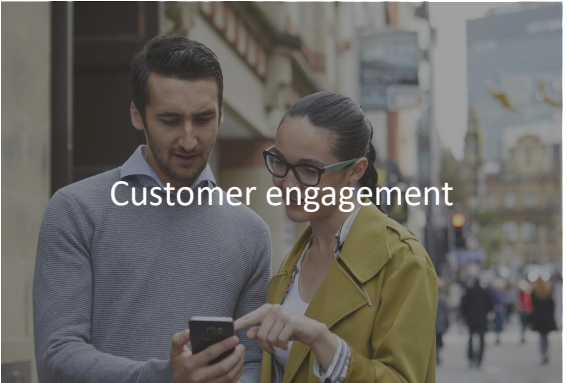
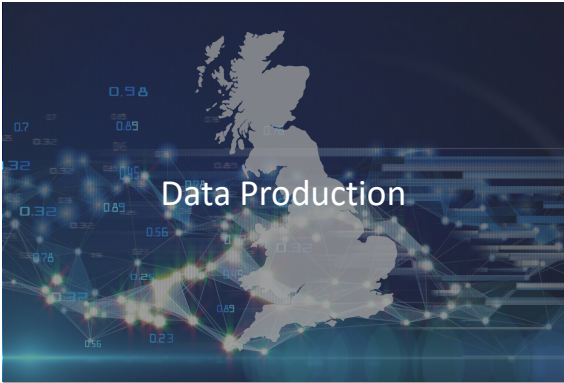


Shows the amount of data captured (change units) across GB during a period of post-GDMS recovery, a move towards 3 year currency for Rural and M&M and delivery of GCIIP.

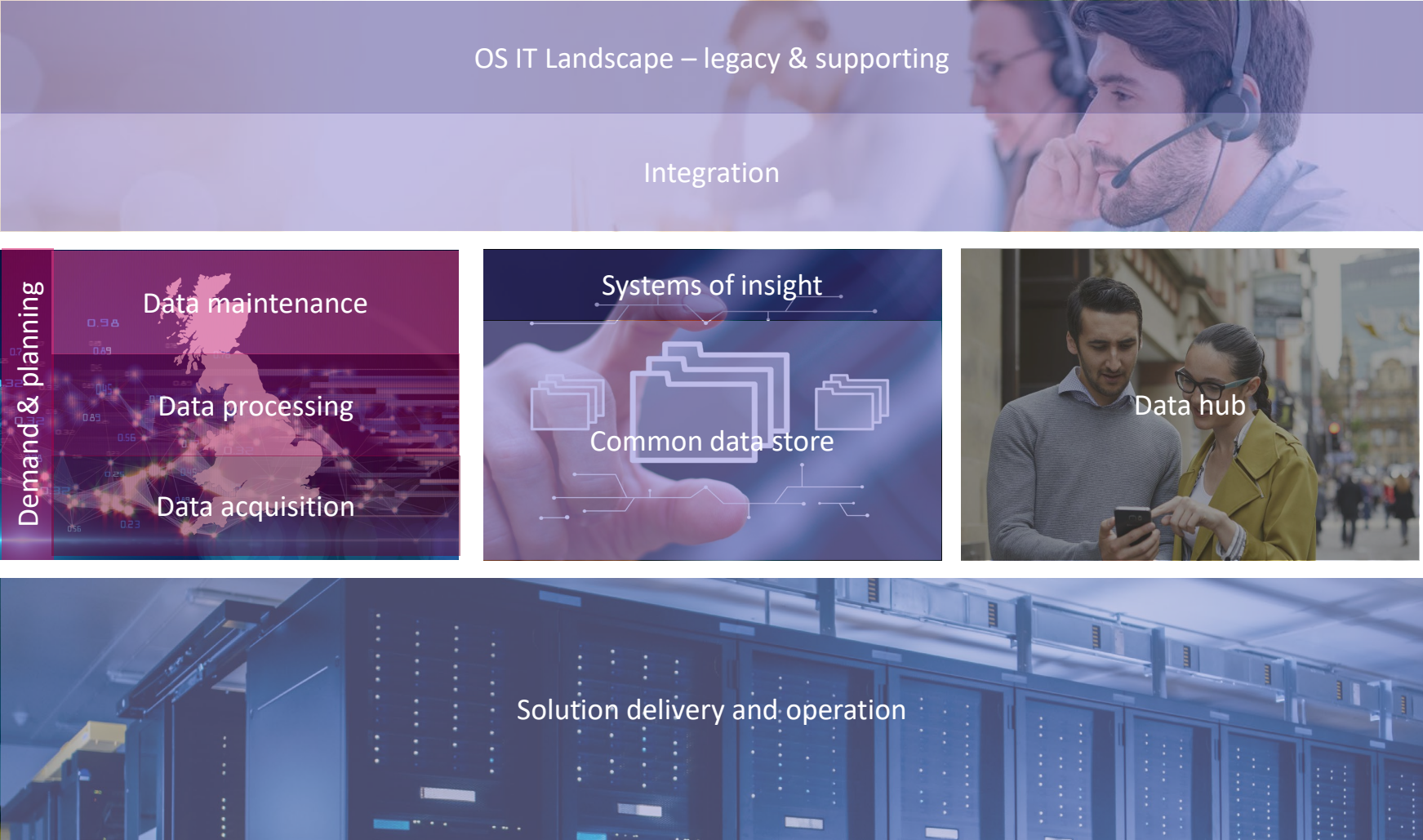
THE WHAT



OS end-to-end architecture framework

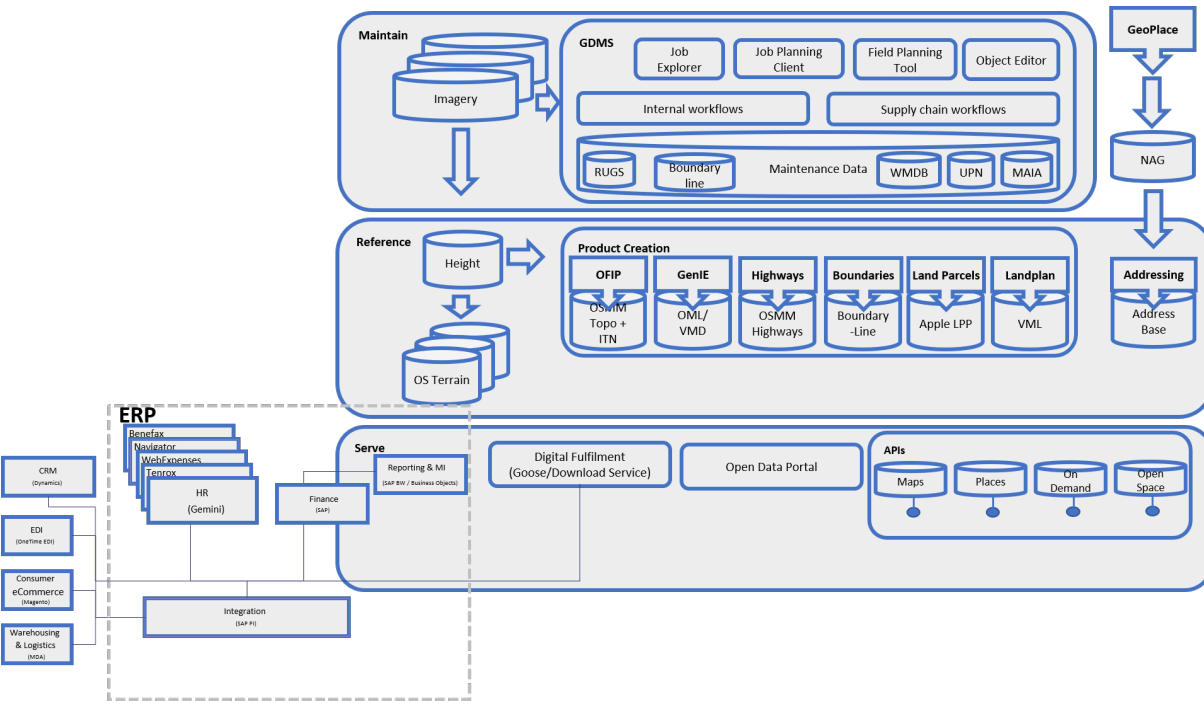


OS end-to-end architecture framework



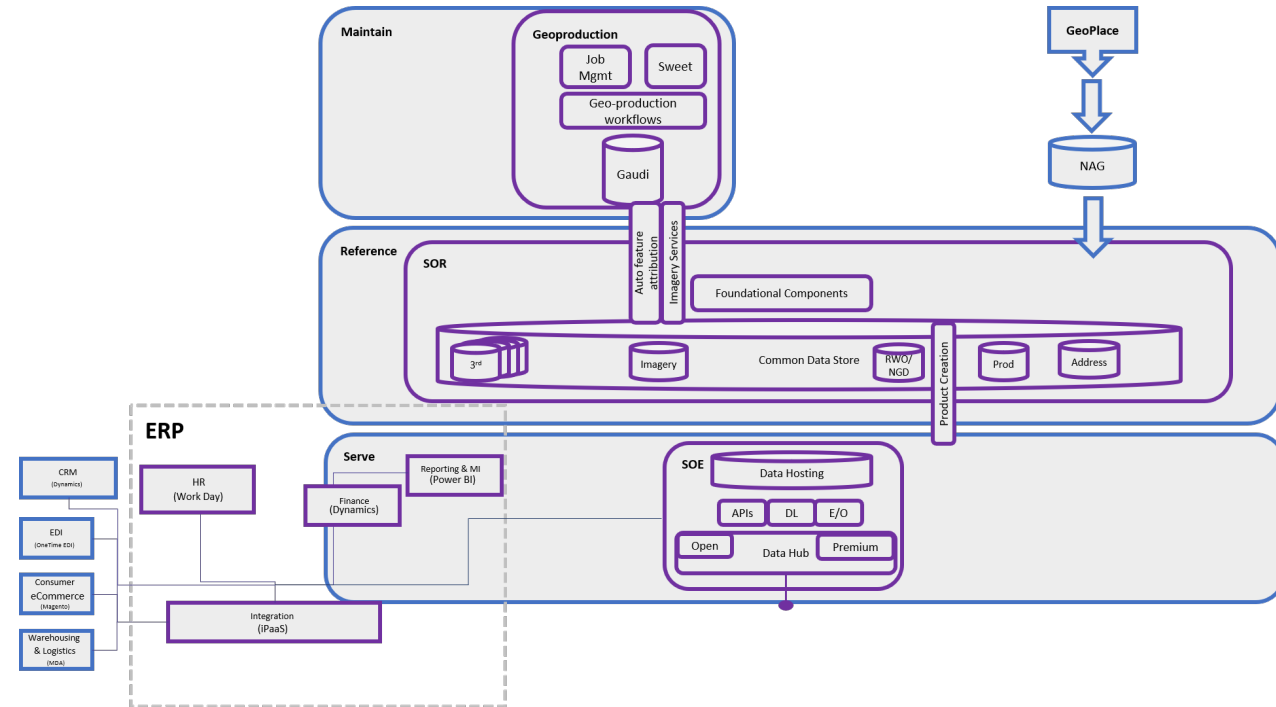
The target

From This



- High cost to change/adapt
- Tactical solutions to long term needs
- Multiple technologies
- Fragmented product data sets
- Support & maintenance challenges

To This



Purple outline denotes adoption of common platform in the cloud against the target architecture

- Lower cost to change/adapt
- Easier to support & maintain
- Migration of customers to the strategic serve capability
- Continual improvement / development to meet changing needs

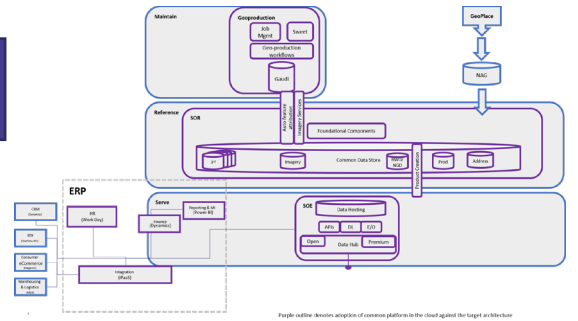
High level Technology Roadmap

2023 ++

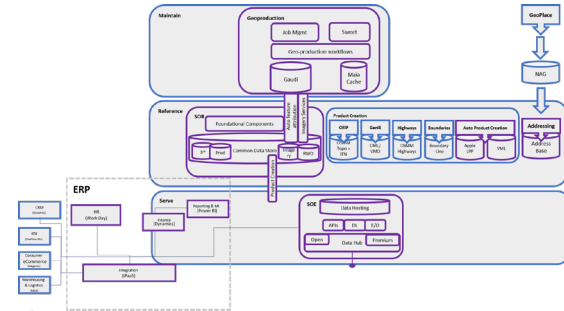
2020 - 2023

2017 - 2020

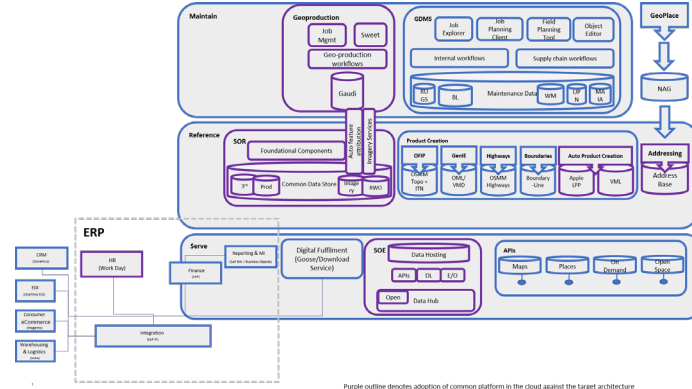
- 2016



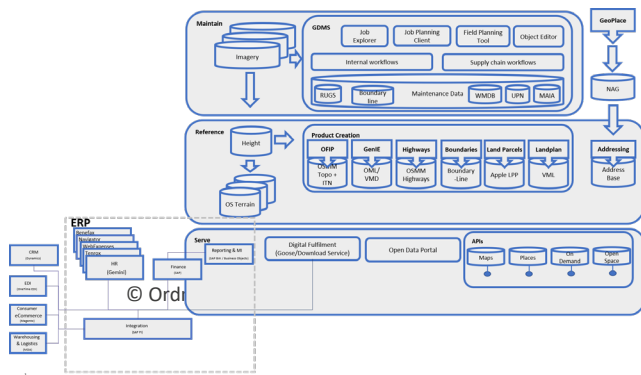
Purple outline denotes adoption of common platform in the cloud against the target architecture



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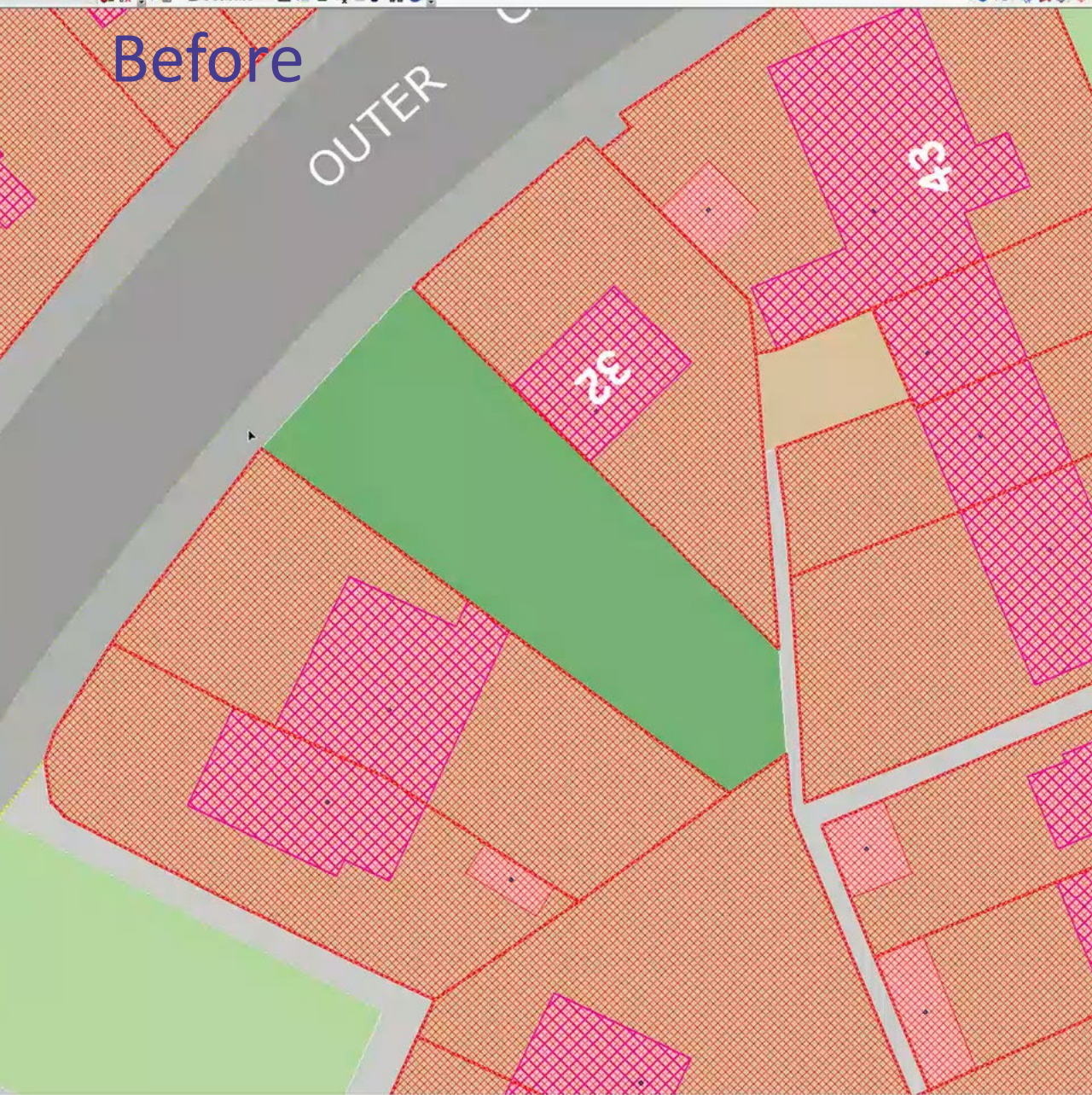
Purple outline denotes adoption of common platform in the cloud against the target architecture



Technology choices



Before



After



Before and after



THE HOW



No big bang



The biggest transformation is how we deliver

Incremental



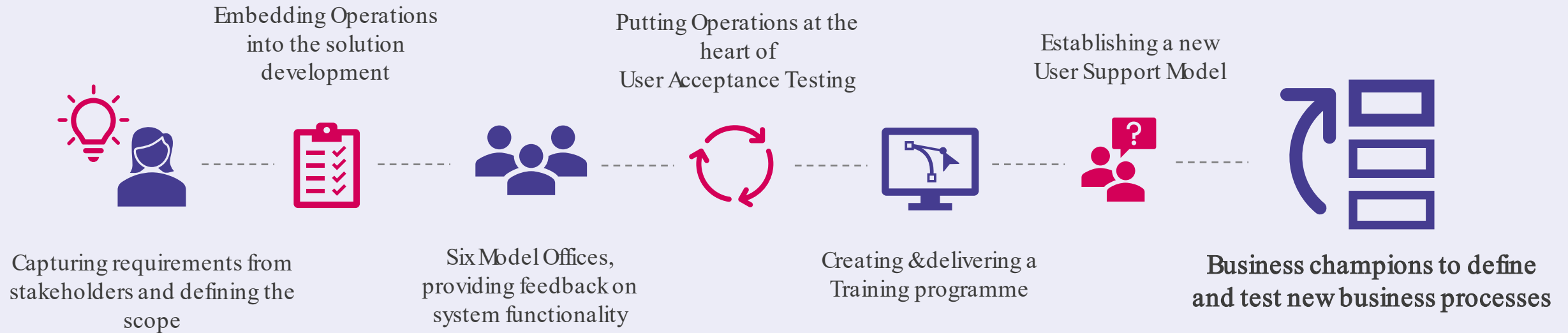
Iterative



The biggest transformation is how deliver

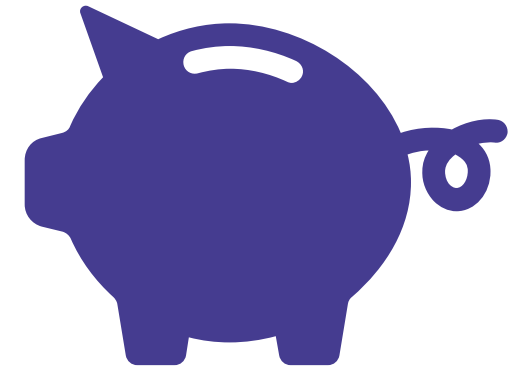
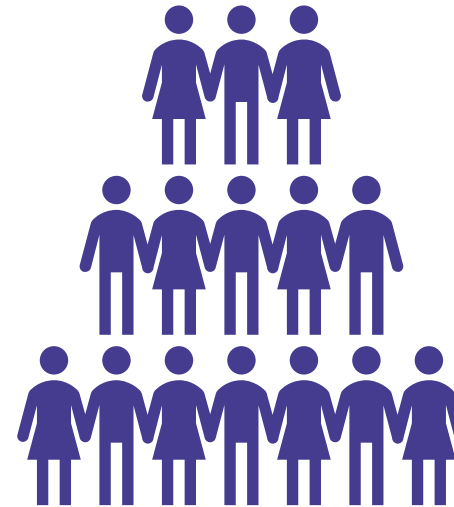
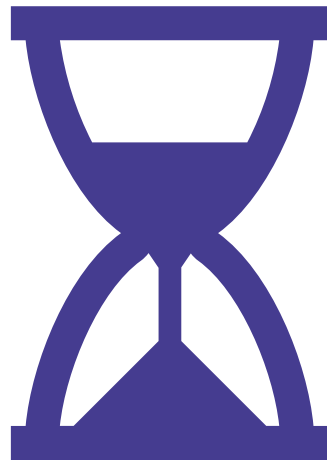
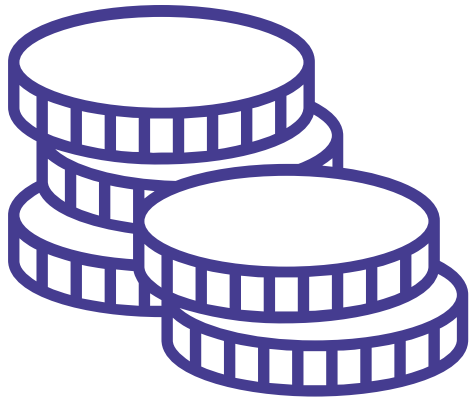


The biggest transformation is how deliver



The Impact

- Reduction in the cost of capture from £178/km to £57/km
- Edits in the data warehouse in 2-5 days from 40 days
- Over 75% of users migrated within the first 3 months of operations
- Internal operating efficiencies of £1.5m per annum



ORDNANCE SURVEY

THANK YOU & QUESTIONS

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SEE > BETTER PLACE