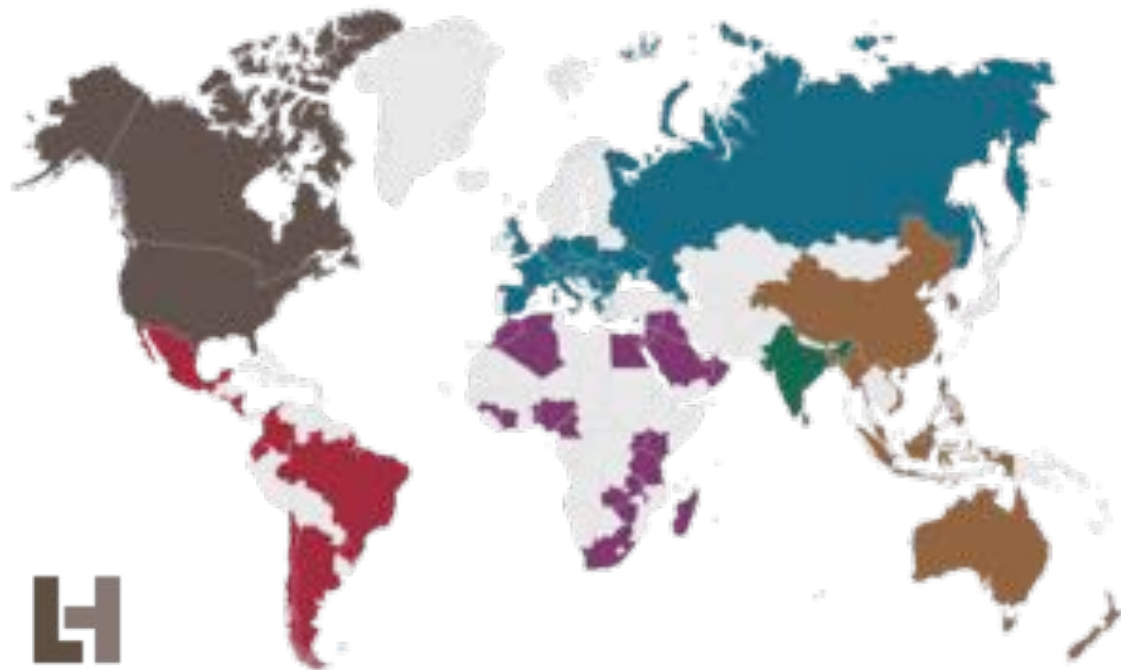




Digital Delivery Solution  
**Aggregate Industries**  
Jason Tew, 04/10/2016

# With global scale and innovation – as part of Lafarge Holcim...

Providing the reassurance of a long-term  
partner with extensive support



**90**  
countries



**2,500**  
operations



**115,000**  
employees



Swiss stock  
Exchange, SIX  
& Euronext



**£2.7**  
billion



**£1.1**  
billion



**£21.4**  
billion



**£4.4**  
billion

# Making our materials accessible to our customers across the UK

Our extensive national plant network provides our customers with materials around the clock



49

Quarries

54

Asphalt Plants

19

Precast  
Concrete Sites

2

Secondary  
and Recycled  
Aggregate Plants

33

Railheads and  
Wharves + 17  
across Northern  
Europe

4

Cement Import  
Terminals

5

Aggregate  
Bagging Plants

77

Ready-Mixed  
Concrete Plants,  
including 12 London  
Concrete plants

2

Cement Plants

Over  
4100

Dedicated Employees

More than  
300

Sites in total



# Delivered across a market leading portfolio

Our 2014 volumes showcase our production and delivery capability



Aggregates

**32.1Mt**



Asphalt

**5.6Mt**



Ready Mixed Concrete

**2.4Mm<sup>3</sup>**



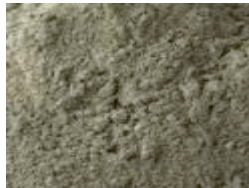
Concrete Products

**2.3Mt**



Contracting

**1.9Mt** asphalt laid



Cement

**1Mt +**



CEM RMX

# Case Study Creating icons

## THE SHARD

- UK's largest ever concrete pour
- Significant volume of concrete required in short time frame
- 5,500m<sup>3</sup> ready-mixed concrete poured continuously over 32 hours.
- Enabled programme acceleration helping our customers with cost efficiencies
- Cracking and shrinkage risk (due to heat build up during curing) of large volume pours expertly managed
- Managed logistics to ensure continuity of supply in the Capital's congested traffic





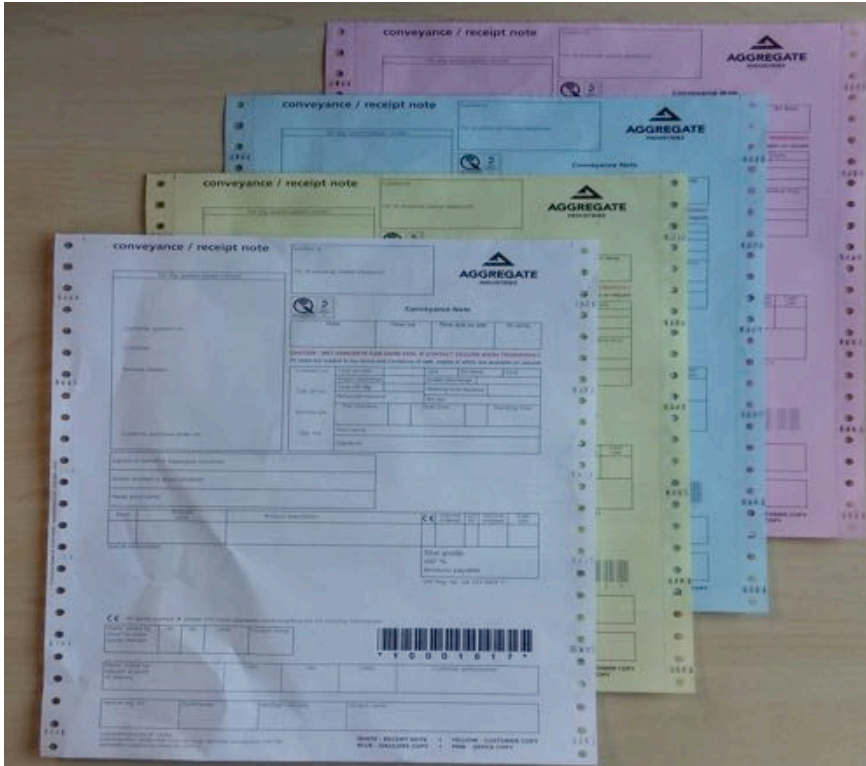
LOG AGG

## Case Study Building gateways

### LONDON GATEWAY

- Record breaking single shipment of 86,813 tonnes to within 20 miles of central London
- Completed within 46 hours (against a target of 72) with challenges, including tidal currents and an incomplete quayside,
- Saved 9,000 vehicle movements and significantly reduced CO<sub>2</sub> emissions
- Glensanda SuperBase™, SuperStone™ and SuperSand™ were used to produce Cement Bound Granular materials
- Creating heavy duty, high performance concrete pavements as part of the £1.5bn London Gateway development, the UK's first 21st Century deep-sea container port and Europe's largest logistics park

## Why Digital Delivery ?



**4 part carbon paper preprinted**

**Over 8K deliveries per day**

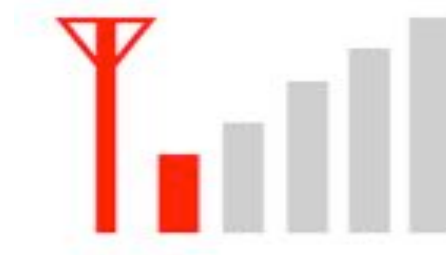


**PODs available within 20 working days**

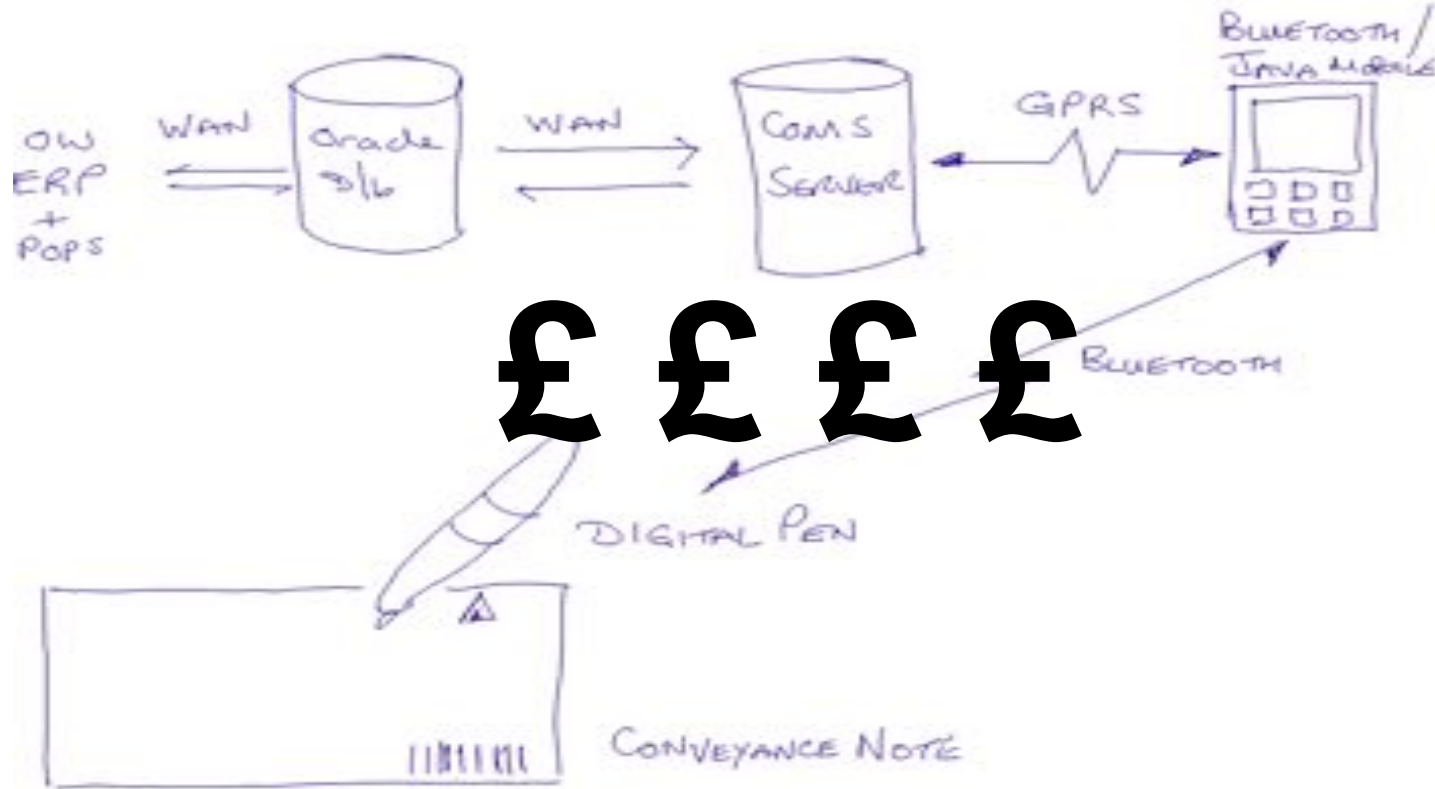
## Hand Held Devices 2006



£ £ £ £



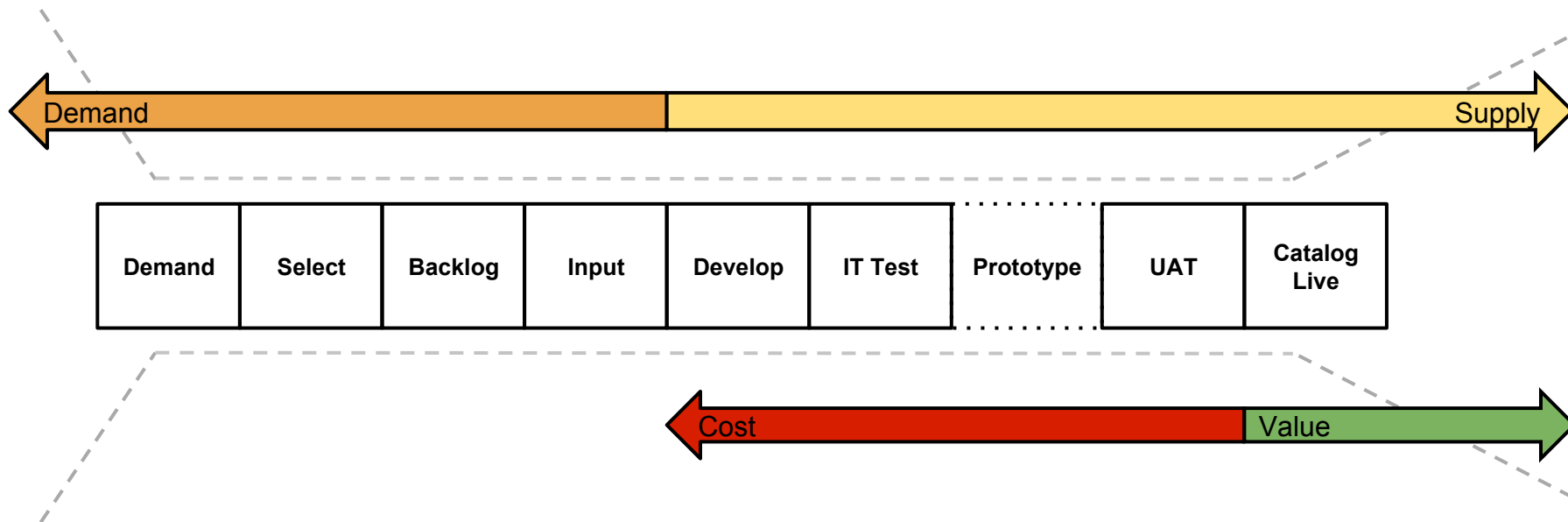




## 2016 – What's Changed

- Dedicated Digital Development Team
- Technical Infrastructure
- Consumerisation of IT

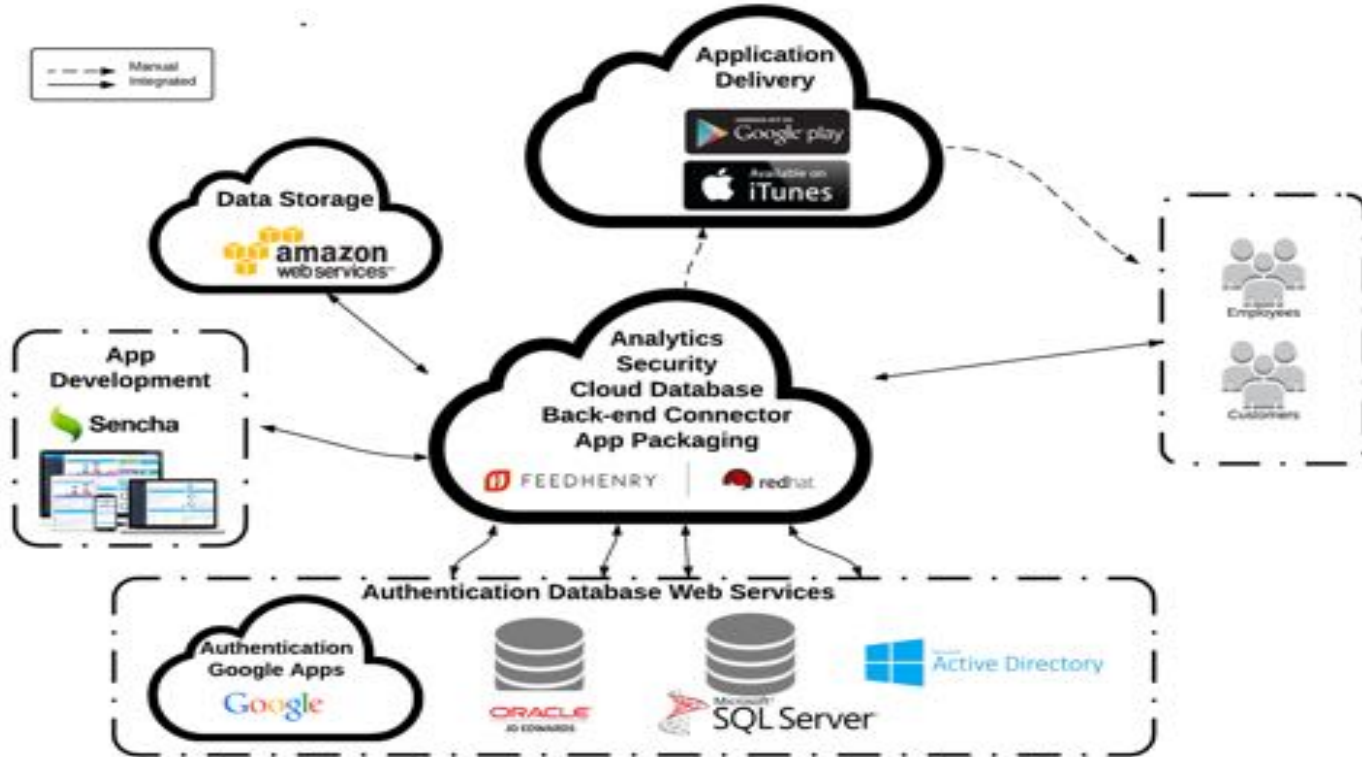




## Principles

1. Cards are pulled from the right (rather than pushed from the left) to ensure team is not overloaded
2. Restriction is applied to enforce maximum number of cards at each stage of the process
3. Blockers are highlighted and addressed to promote accelerated delivery

## Technical Infrastructure



# Consumerisation of IT





## Who is it for?



- **Development Started August 2016**
- **Mobile App for Driver use**
- **Portal for AI Staff / Hauliers / Customers**
- **Pilot 17<sup>th</sup> October**
- **Hand over / Training for Internal Team**

# DEMO

# -THANK YOU-