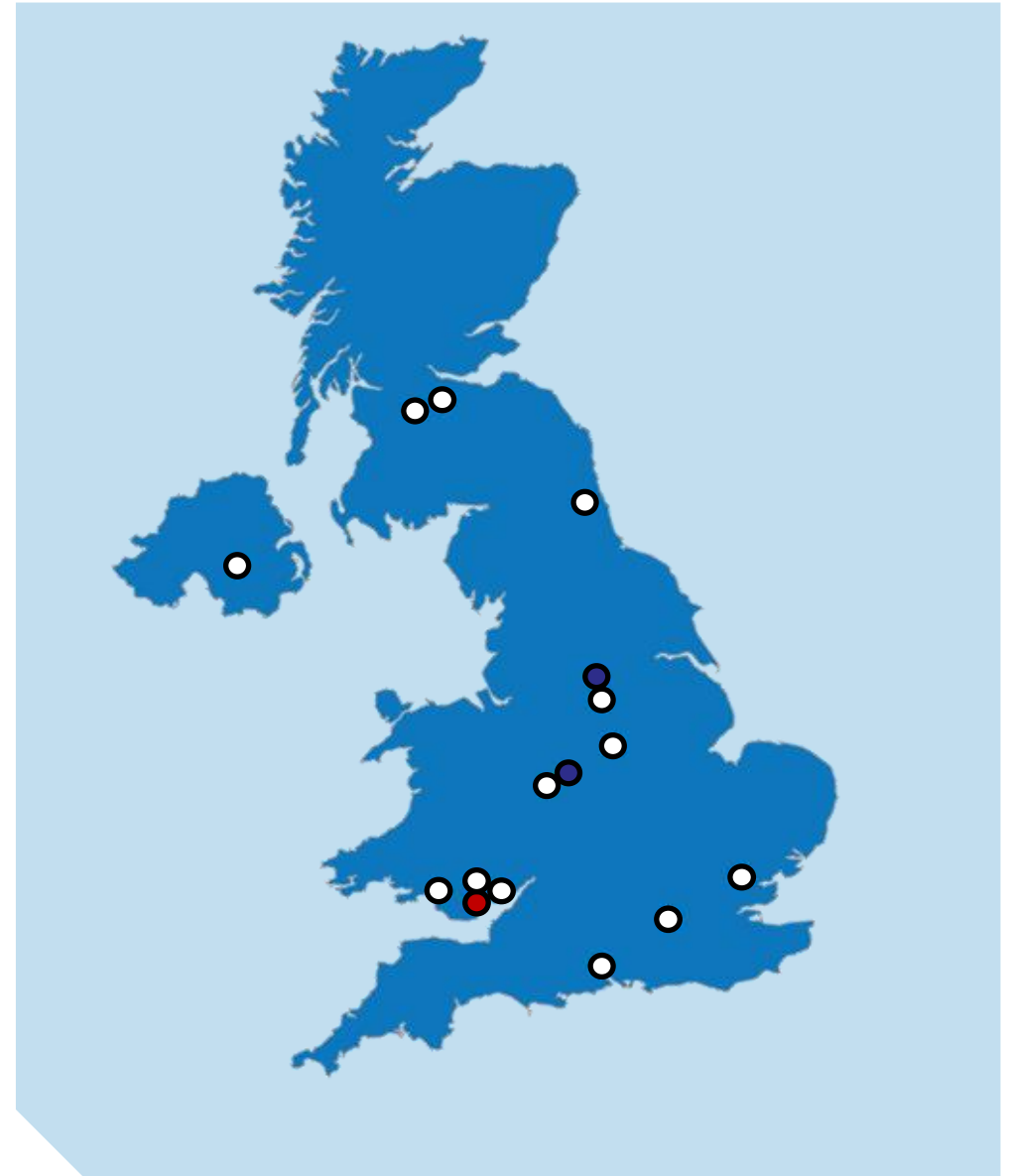# FLOW – Jamie Holling

Why Reinforced Concrete?

- Long history of use in the marine Environment

- Shrinking Environmental impact (EPD)

- Durability over 50 years

- Locally sourced

- Recycled content

- Recyclability
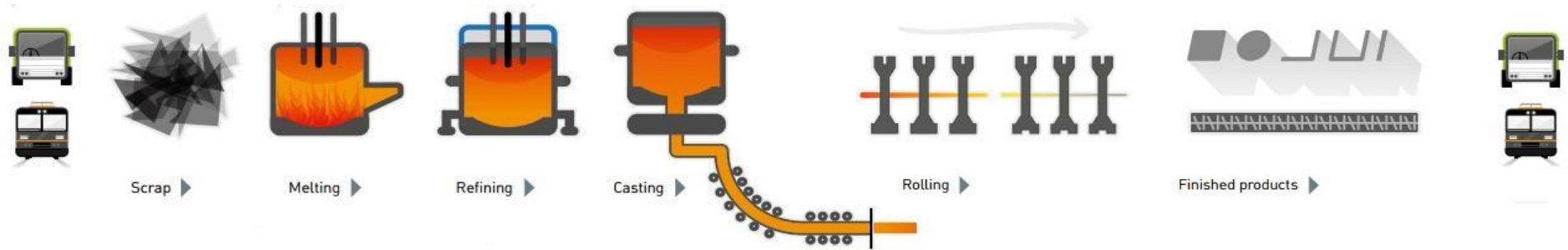
- Traditional construction methods

Steel Making & Fabrication Sites UK

UK HQ: Steel Making & Rolling

Fabricator

Mesh Producer

Electric Arc Furnace Technology

Scrap ▶   Melting ▶   Refining ▶   Casting ▶   Rolling ▶   Finished products ▶

Reinforcing bars
For the reinforcement of concrete (Grade 500C)

High Yield Coils
For the reinforcement of concrete (Grade 500C)

FLOW Rebar Specifications

- Currently B500C grade (Cardiff) 98 % recycled content 100%UK sourced

- Standard diameters and lengths

- Possible B550C or B600C grade

- Intermediate diameters: e.g. 22mm, 28mm, 36mm, 42mm

- Intermediate lengths: e.g. 11m, 13m, 17m

- Quantity Driven

Local Plants

- Nearest existing plants – Motherwell and Whitburn

  - Joint capacity 800t cut and bent bar per week

- Ardesier 180 miles

- Kishorn 240 miles

- Thurso 280 miles

- No skills/rebar fabrication north of the M8

Future Investment

- Minimum, x2 close to shore facilities required in northern Scotland

- Specialist automated machinery required (12-18 month lead time)

- Bespoke factory units to accommodate machinery (2-3 years)

- Approximately 100m x 50 m factory - plus storage/yard

- Workforce: 70-100 per site

Logistical Options

- Shipping direct to port facility

    - Cardiff to Ardesier 850 miles (3.5 days)

    - Cardiff to Thurso 750 miles (3 days)

    - Cardiff to Kishorn 600 miles (2.5 days)

- Minimum 5000t per shipment

- One every 10-12 days at peak demand

- Possible rail link

Manufacturing Options

- Group rebar capacity

- New Steel mills in Scotland?

- UK fabrication

- Factories close to port facilities?

- Robotics/automation

- Key factors (12-18 months lead time)

- Bespoke factory to suit automation

Technical Solutions

- Technical solutions for offshore bases

- Rebar

- Coupler systems

- PT

- Formwork

- Concrete

- Questions Welcome
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