

Extended Readiness and Capability Regeneration

Helping the MoD to avoid costly mistakes
Emma Matthews, CORDA, 29th July 2014



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Background



What is the impact in terms of time and cost of having to regenerate my capability?

Challenges



Generic



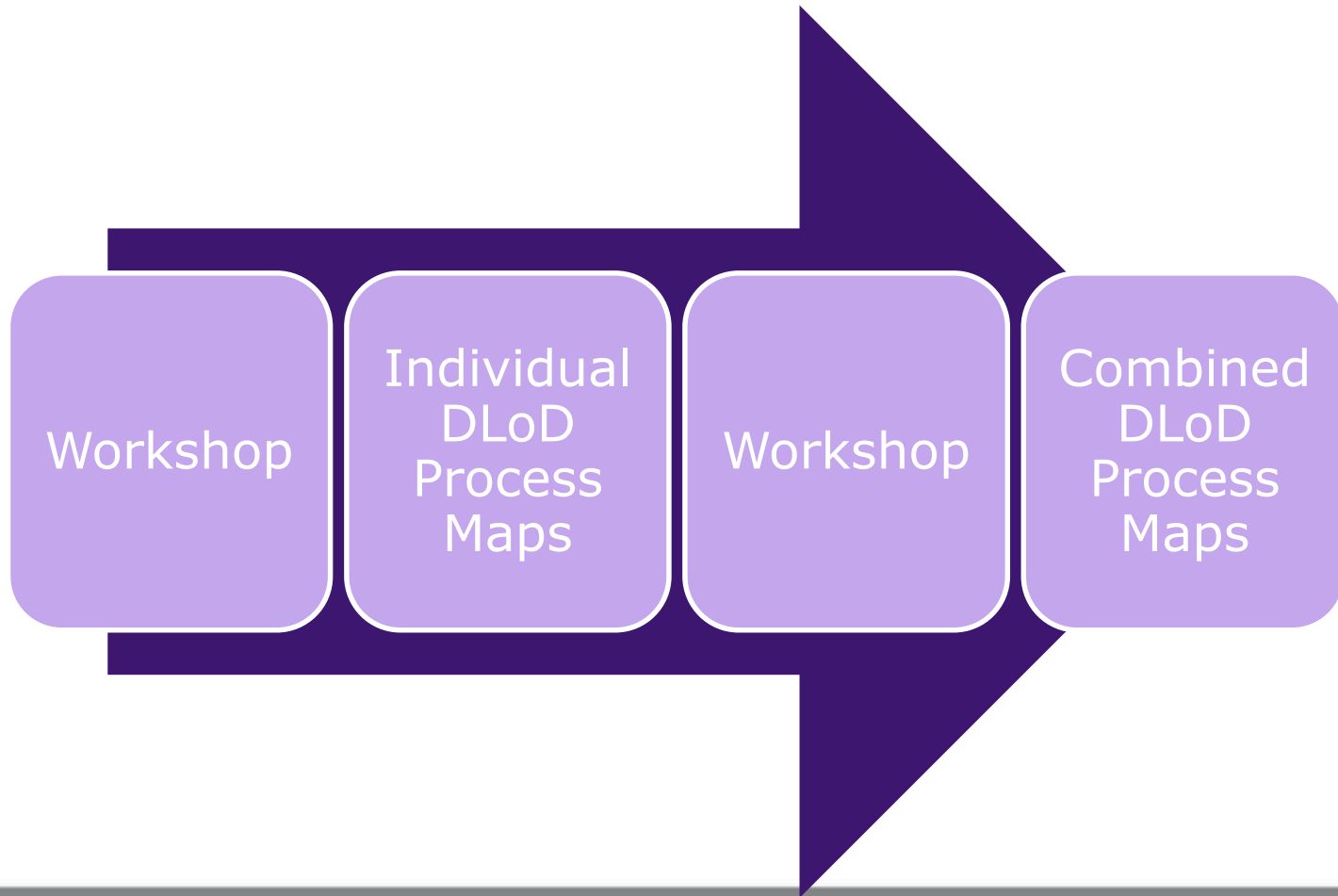
Industry & MoD



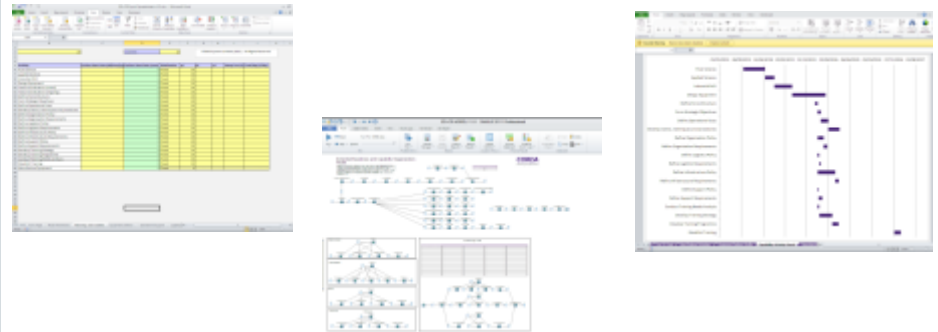
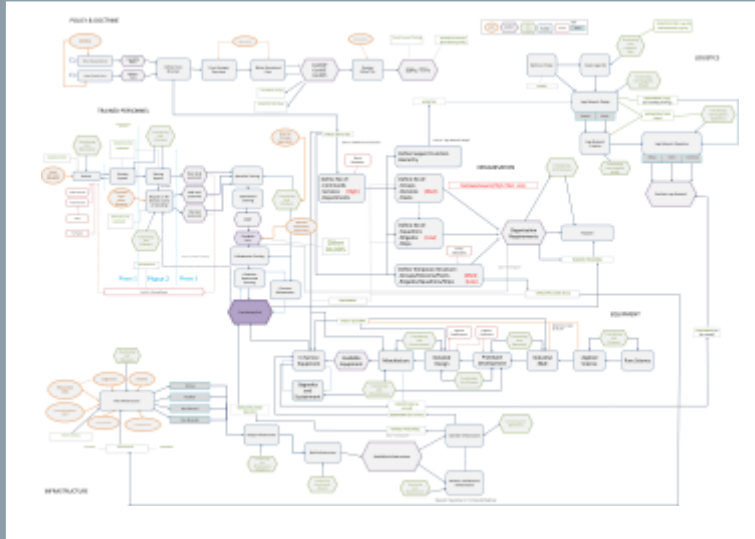
Cross-DLoD

Solution Developed – Activity Mapping

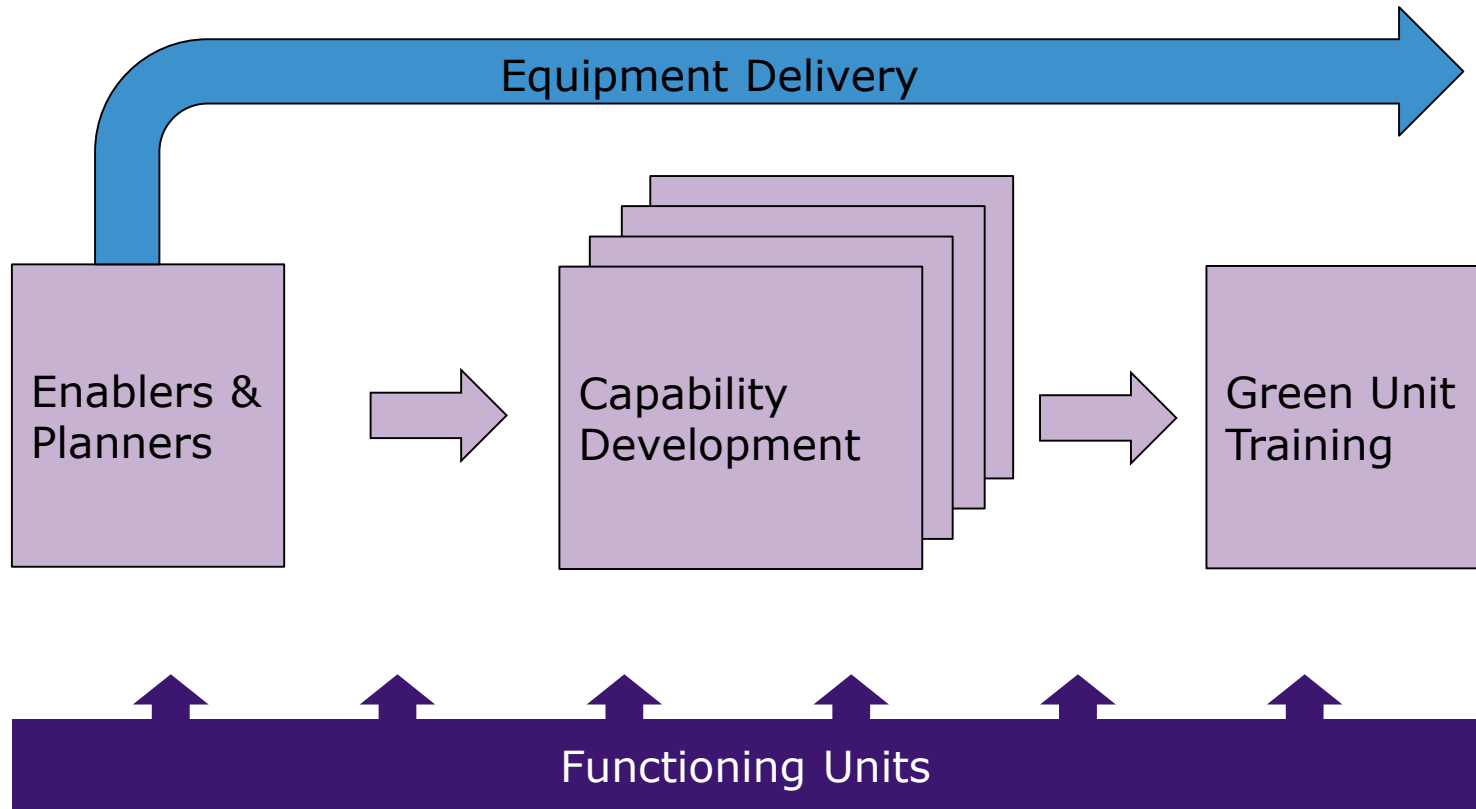
High-Level Approach taken



Approach Taken



Solution Developed – Model Structure



Solution Developed – Benefits

- Quick model run time allows for rapid-fire analysis
- Simple costing calculations
- Few “hard-wired” dependencies
 - Equipment
 - Personnel, by rank & skill
 - Preceding activities
 - Functioning Units
- Outputs can be easily exported to MS Project
- Allows the feasibility of current plans to be tested

Case Study

- Regeneration of Fast Jet Capability
- 2 scenarios:
 - 'Organic' growth – progression through ranks
 - Experienced grades taken from another capability

What are the cost and time implications of these 2 scenarios?



Case Study

Case 1 – Organic Growth

- Small batch of new recruits trained to type by industry
- Once trained, undergo instructor pilot training
- Then train next batch of Flt Lts
- Wait time for promotion and further training

Case 2 – Bring in experience

- Small batch of new recruits trained to type by industry
- Once trained, undergo instructor pilot training
- Train required Flt Lts (new recruits), Sqn Ldrs and Wng Cdrs (already experienced)
- Experienced hires take longer and cost more to recruit

Case Study Results – Equipment on time

Case 1 – Organic Growth



Case 2 – Bring in experience



Mean Model Completion date
09/08/2038

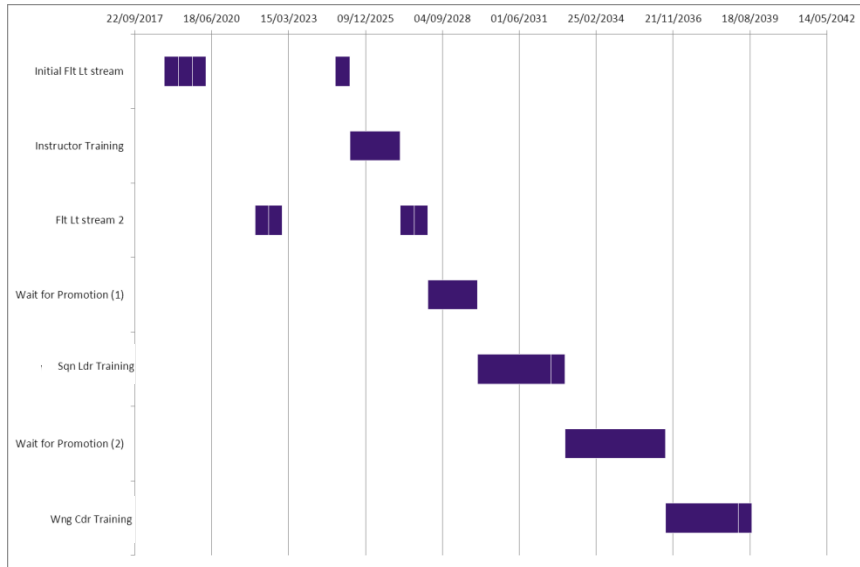
Mean Model Run Cost
£157,095,451

Mean Model Completion date
09/01/2029

Mean Model Run Cost
£95,179,861

Case Study Results – Equipment delayed

Case 1 – Organic Growth



Mean Model Completion date

17/07/2042

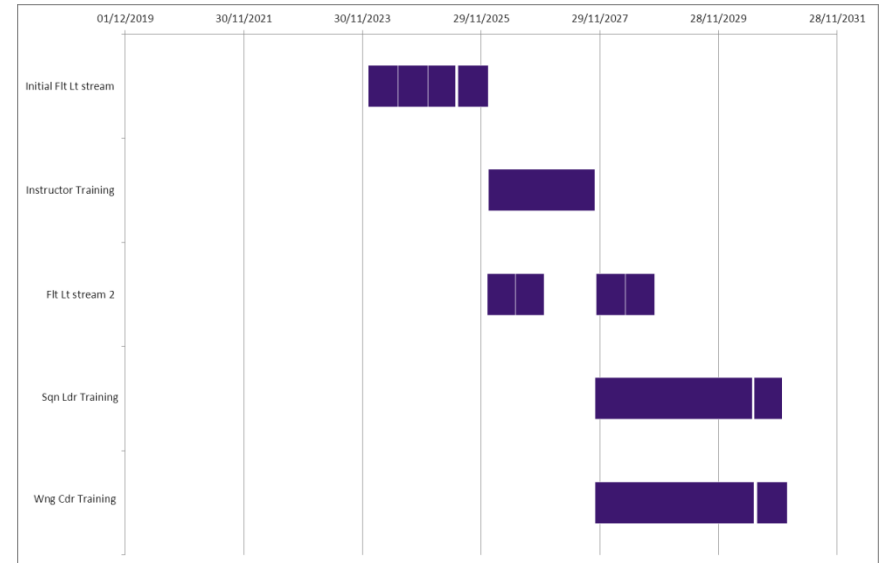
Δ 4 years

Mean Model Run Cost

£179,525,109

Δ £22m

Case 2 – Bring in experience



Mean Model Completion date

27/04/2034

Δ 5.25 years

Mean Model Run Cost

£125,534,991

Δ £30m

Delay has greater impact on Case 2, but it remains the cheaper and quicker option



Avoidance of costly mistakes



Ability to de-risk current plans



Quick-fire analysis which provides the evidence to justify decisions