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Delivering Successful Futures

Extended Readiness and Capability Regeneration

Helping the MoD to avoid costly mistakes

Emma Matthews, CORDA, 29th July 2014

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Background

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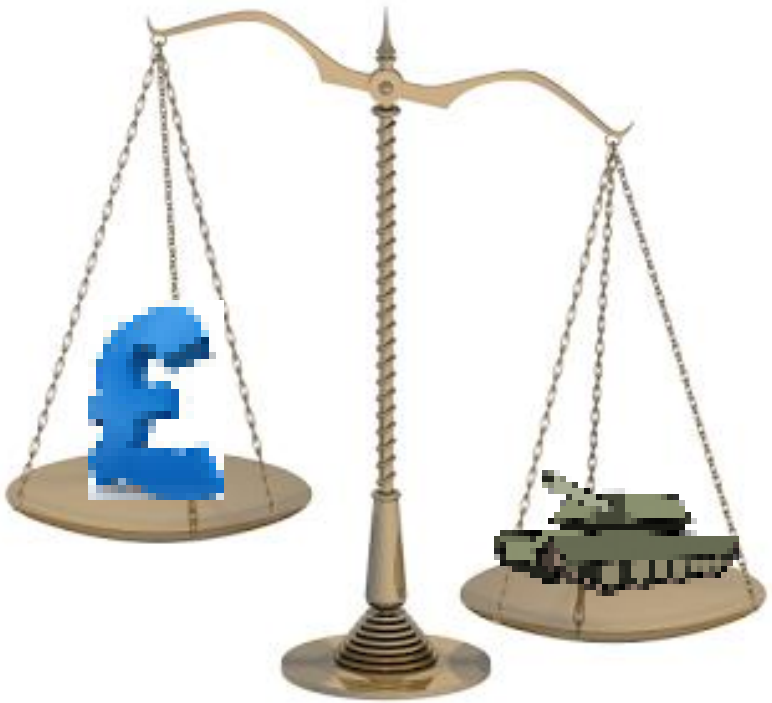

What is the impact in terms of time and cost of having to regenerate my capability?

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Challenges

Generic

Industry & MoD

Cross-DLoD

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Solution Developed – Activity Mapping

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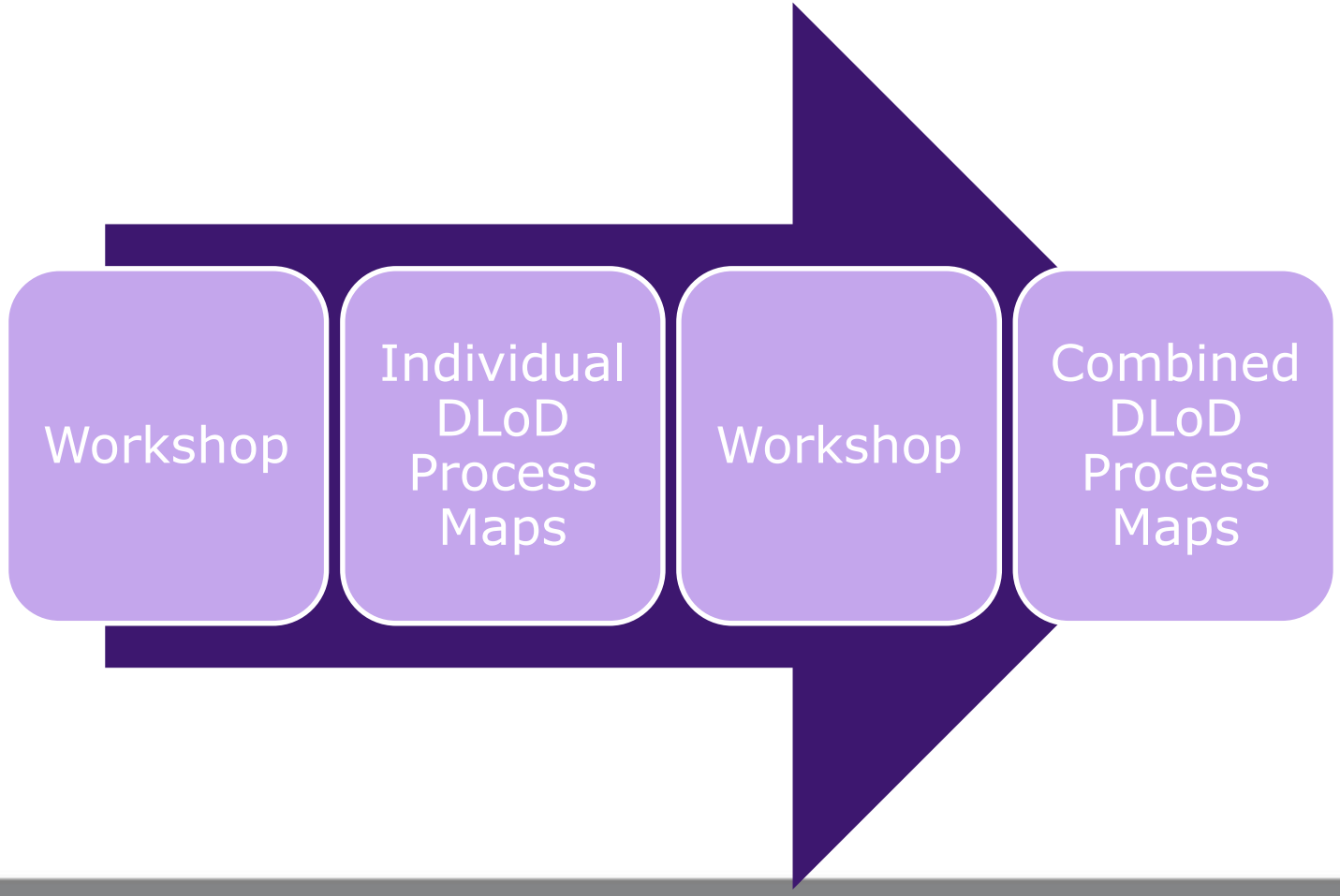
High-Level Approach taken



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Approach Taken

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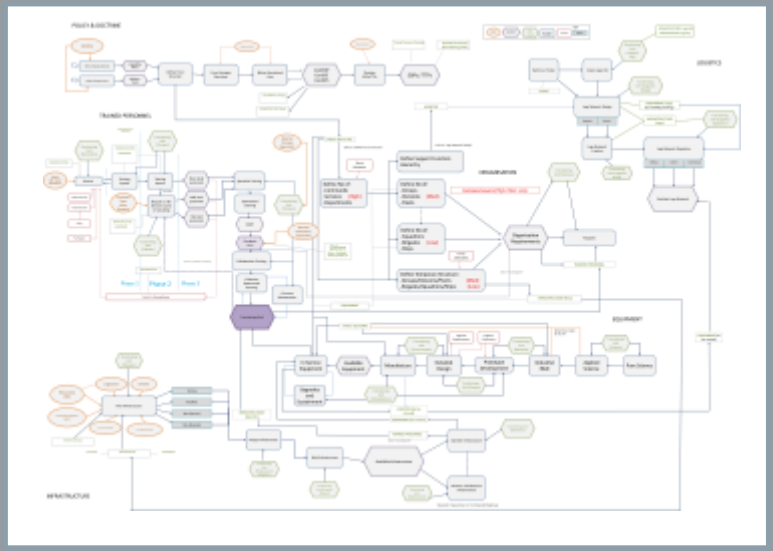

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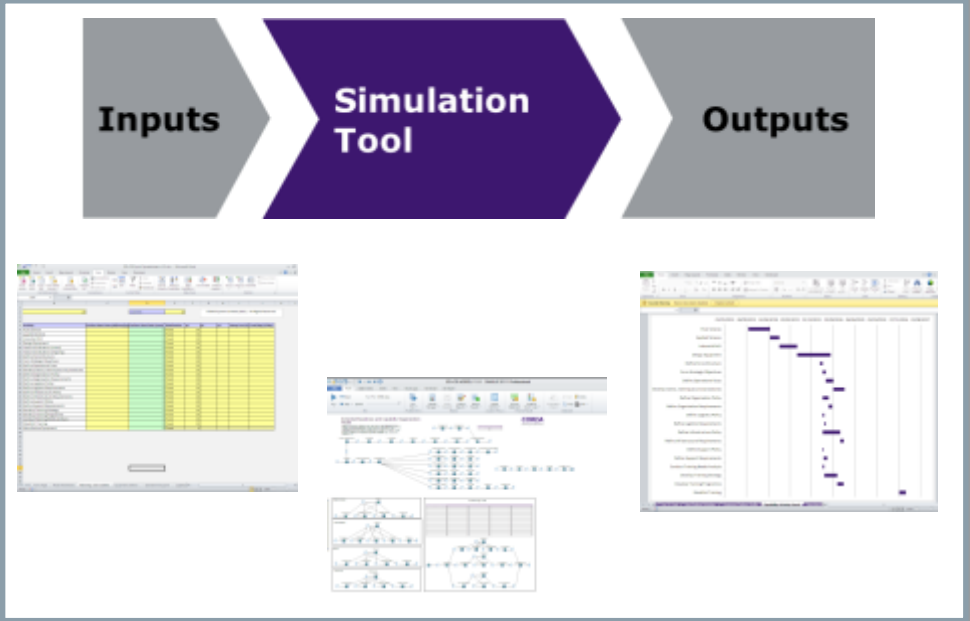

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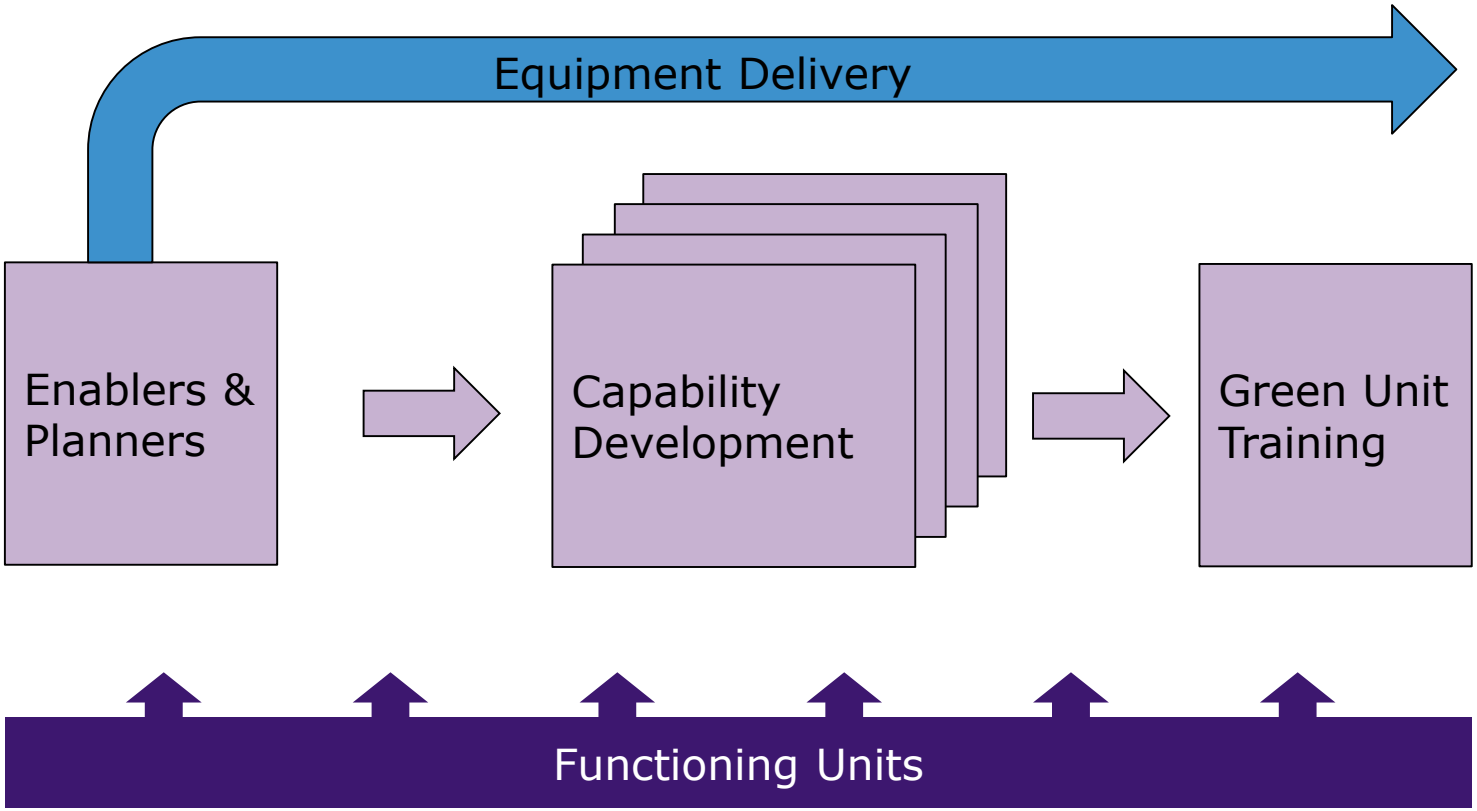
Solution Developed – Model Structure



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Solution Developed – Benefits

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- 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

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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?

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Case Study

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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

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Case Study Results – Equipment on time

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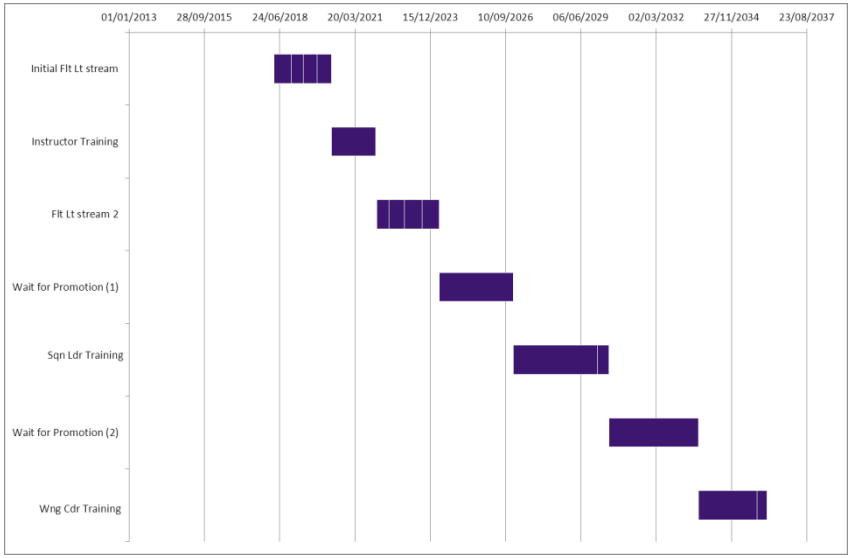
Case 1 – Organic Growth



Mean Model Completion date	Mean Model Run Cost
09/08/2038	£157,095,451

Case 2 – Bring in experience

Mean Model Completion date	Mean Model Run Cost
09/01/2029	£95,179,861

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Case Study Results – Equipment delayed

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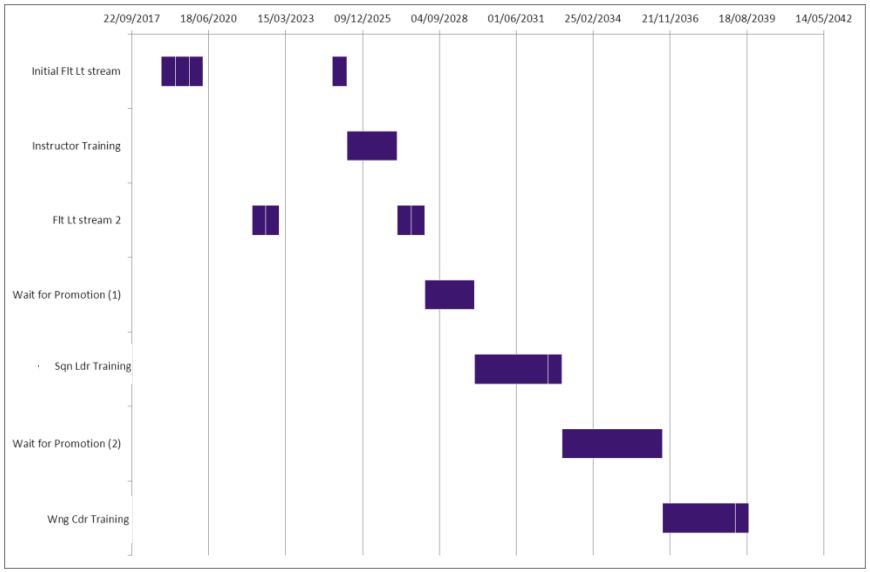
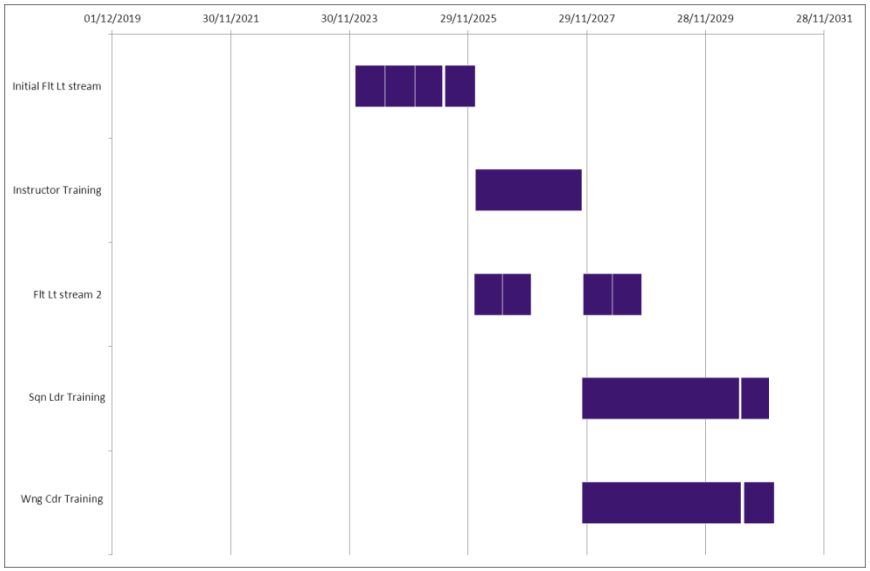
Case 1 – Organic Growth



Mean Model Completion date	Mean Model Run Cost
17/07/2042	£179,525,109
Δ 4 years	Δ £22m

Case 2 – Bring in experience



Mean Model Completion date	Mean Model Run Cost
27/04/2034	£125,534,991
Δ5.25 years	Δ£30m

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

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Conclusion

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Avoidance of costly mistakes

Ability to de-risk current plans

Quick-fire analysis which provides the evidence to justify decisions

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