

Advanced Work Packaging EWP Readiness

Developed by the COAA AWP Committee



Advanced Work Packaging – EWP Readiness

AGENDA

Why are we here?

Part 1 – What is Readiness

Part 2 – Readiness Tool

Part 3 – The Readiness Playbook

Part 4 – Readiness Implementation Learnings

Questions and Answers



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WHY ARE WE HERE?

Roll Out:

- EWP Readiness Tool
- Playbook



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PART 1 – What is Readiness



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WHAT IS READINESS?

Readiness:

The state of completion of an Engineering Work Package (EWP) as measured against the various engineering milestones required to be completed during the engineering *workflow*



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How does READINESS differ from PROGRESS?

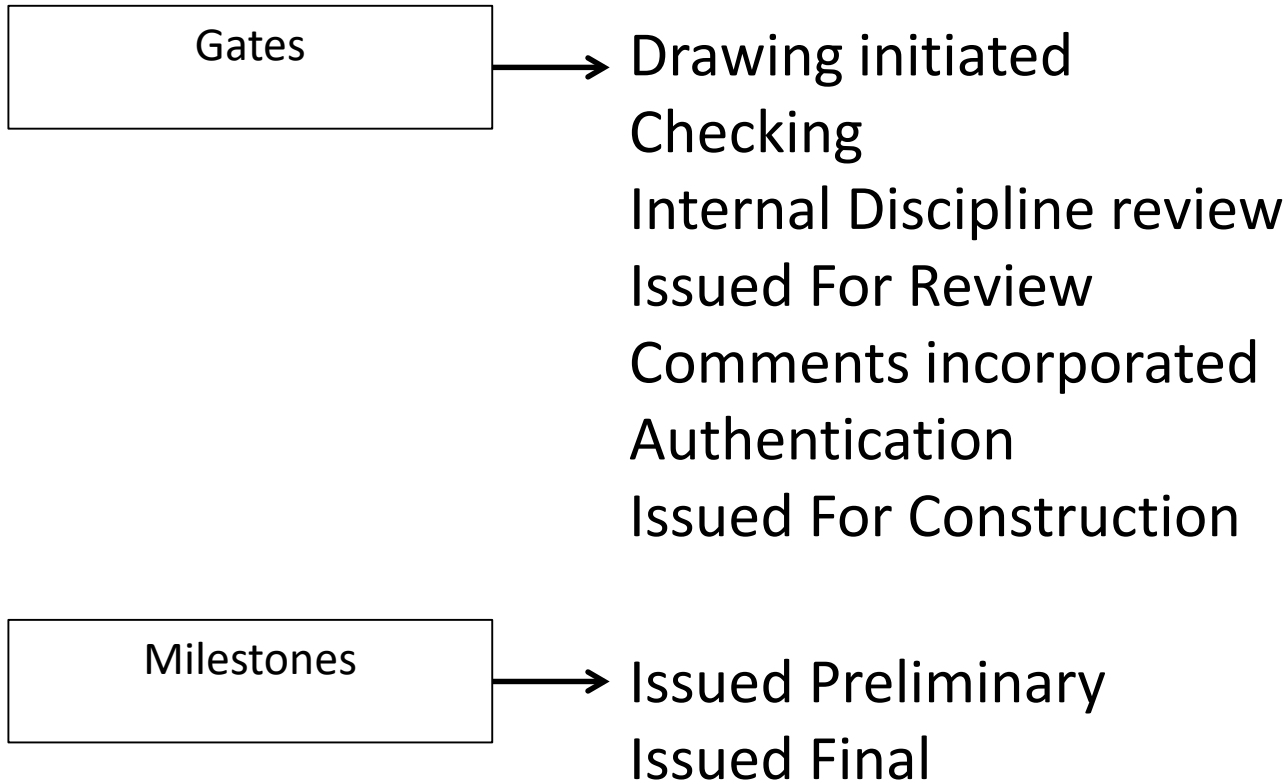
Progress:

Progress is a measure of the cumulative completeness of the *deliverables* that together, make-up the EWP. Progress is determined by applying discipline rules-of-credit (RoC) (progress gates) to each individual deliverable with the weighted average representing the overall package progress.



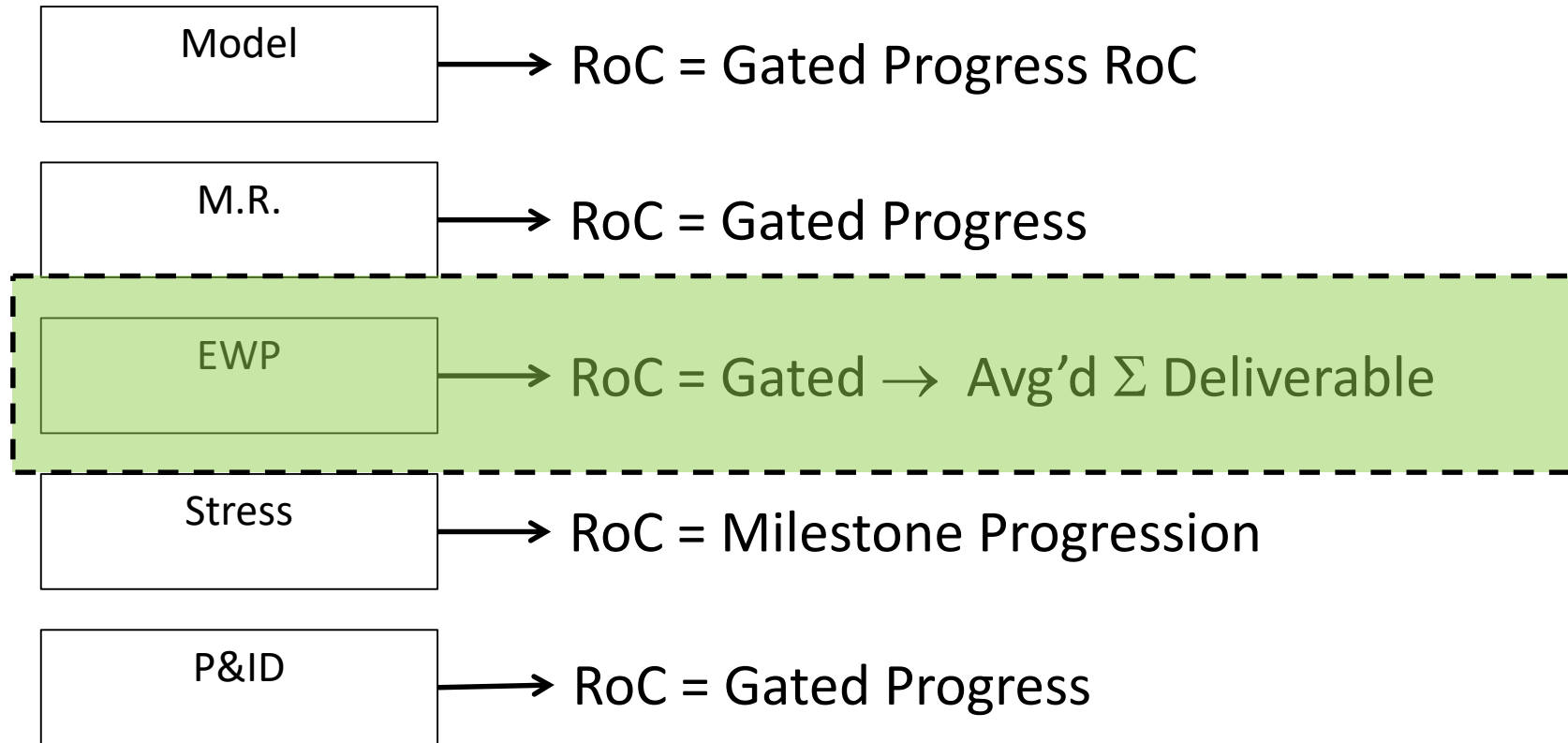
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PROGRESS example



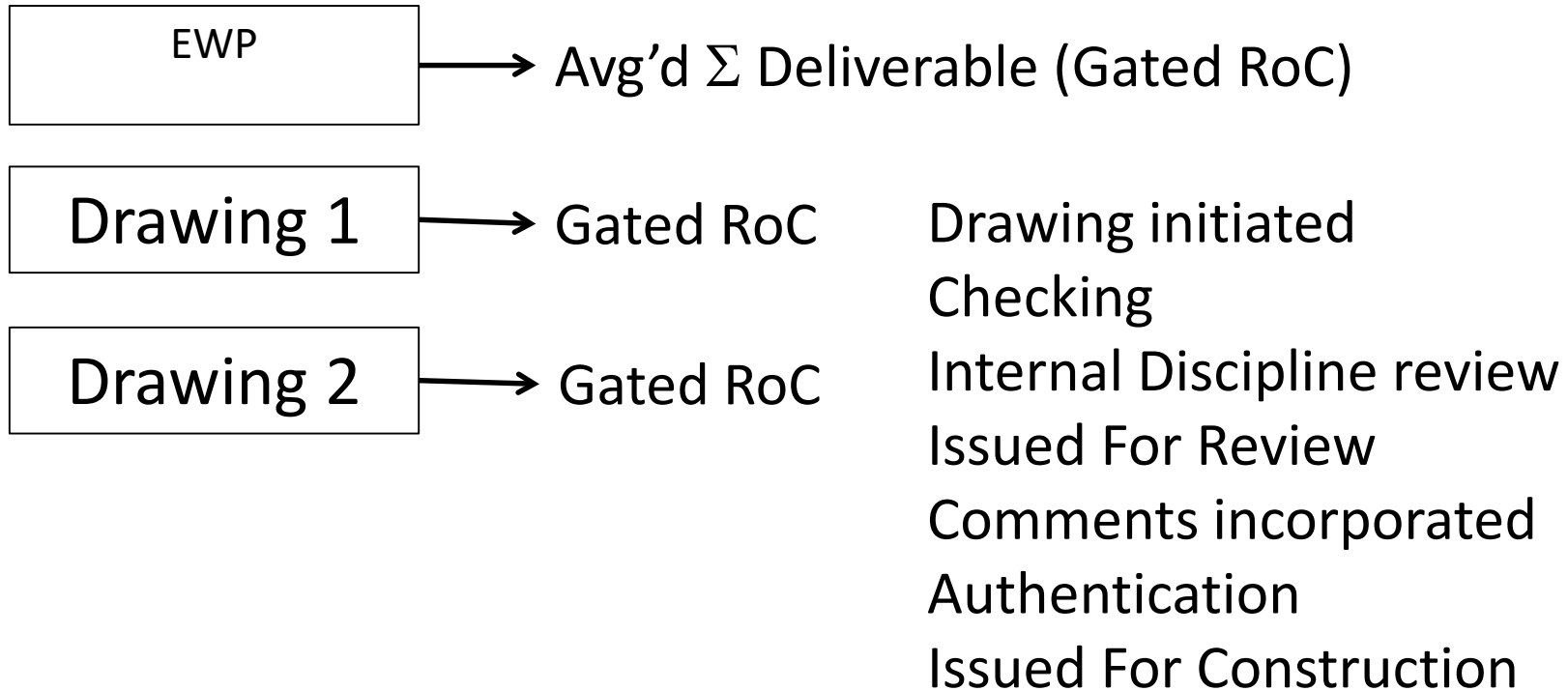
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PROGRESS example



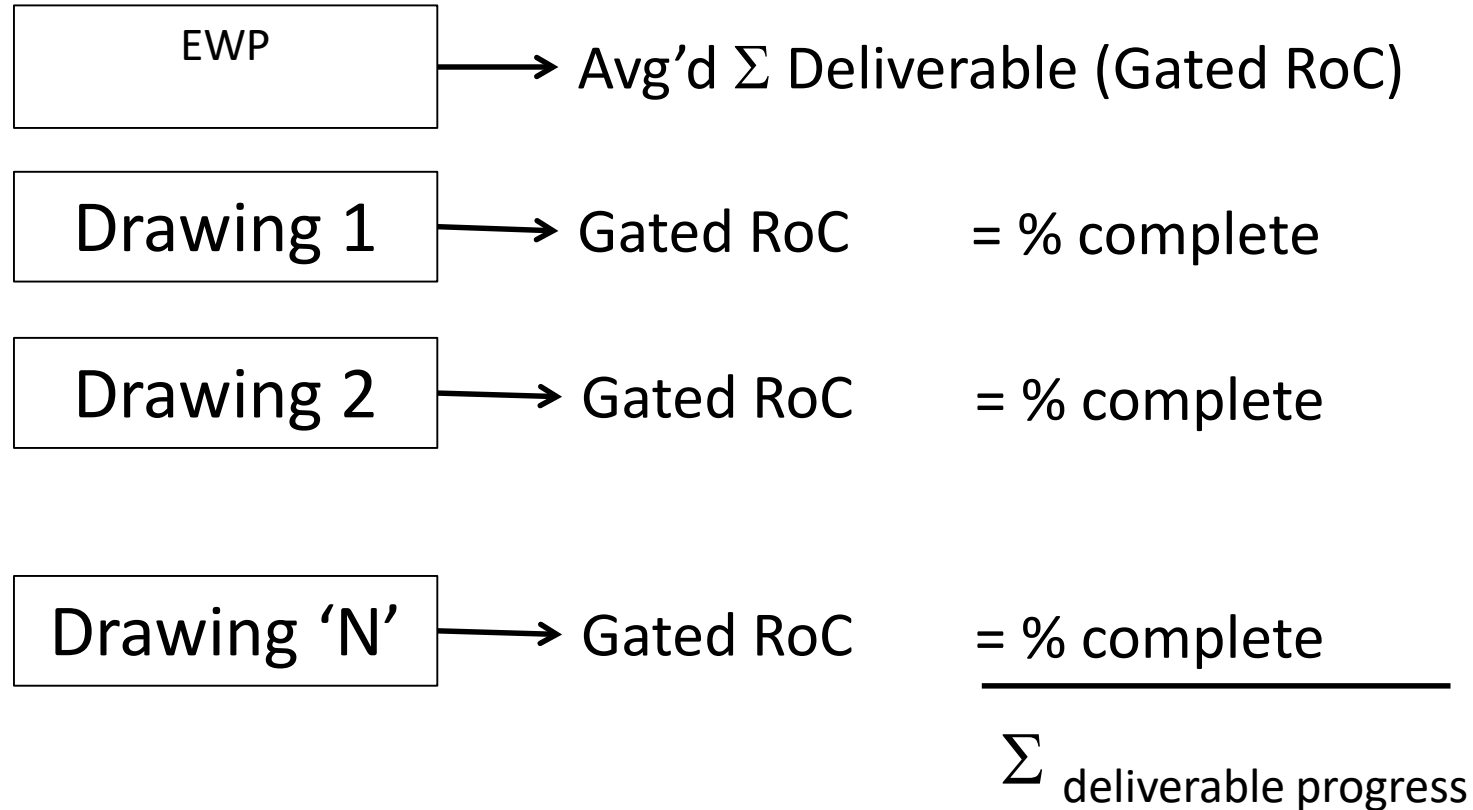
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PROGRESS example



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PROGRESS example

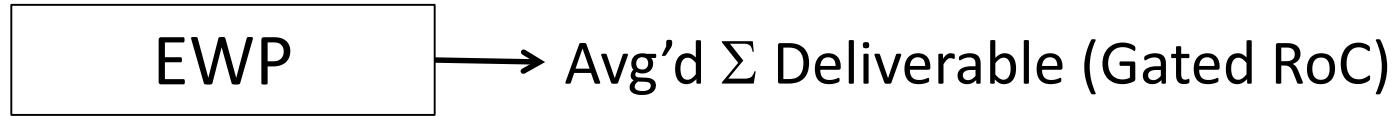


$$EWP = \Sigma \text{ deliverable progress} / \text{'N' deliverables}$$



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PROGRESS example



$$\text{EWP} = \sum \text{deliverable progress} / \text{'N' deliverables}$$

The BIG Question

EWP progress = 95% it has been for 4 weeks

ANSWER

The 95% progress = **completeness ≠ readiness**



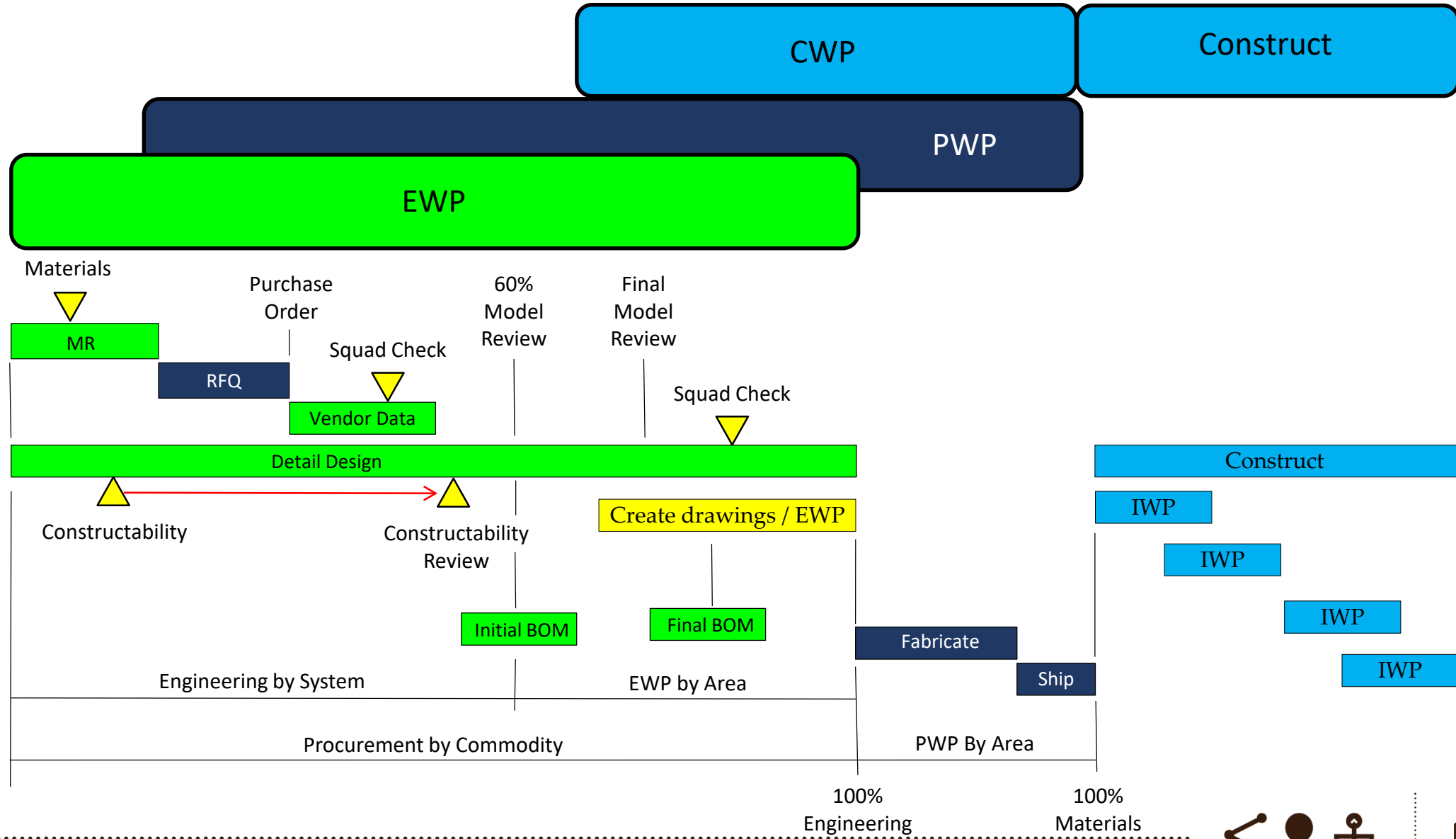
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READINESS

The state of completion of an Engineering Work Package (EWP) as measured against the various engineering milestones required to be completed during the engineering *workflow*



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GENERIC STAGE DESCRIPTION (see glossary for terminology)	%	CUM	Comments
Initial scope identified	5%	5%	Agreed Scope, Basis of design and deliverables with client
Preliminary vendor data received	15%	20%	Where applicable - used to initiate (but not finalize) engineering and may include cut sheets, catalog info, past (ref) parts or equipment used, etc. This also includes cross discipline vendor data where necessary.
Initial design (60%)	20%	40%	This is synonymous to the 60% model review.
Prelim BOM's	10%	50%	This may be used for Key Quantity Tracking, estimating or procurement/materials management alignment.
Final vendor data received / checks	10%	60%	Where applicable
Final design (90%)	15%	75%	This is synonymous to the 90% model review.
Deliverables	10%	85%	includes drawings, BOM's, reference data, etc.
EWP Checks and Review(s) complete	5%	90%	This is synonymous with the final reviews including: internal checking complete, interdisciplinary reviews (or squad check) and IFR (Issued For Review) to client/contractor for review
EWP c/w all drawings/specs/MTOs issued IFC	5%	95%	Issued for construction (IFC)
EWP accepted by Construction	5%	100%	EWP deemed complete



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PART 2 – Readiness Tool



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Demonstration



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PART 3 – The Readiness Playbook



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READINESS Playbook

What is a playbook:

The EWP Readiness Assessment Playbook is a how-to guide for your organization and project outlining the why/who/what and when.

Demonstration



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PART 4 – Readiness Implementation Learnings

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Implementation Learnings

- **Model CWA (Construction Work Area) versus bulk EWP progression**
 - **CWA 1 – model review 60% progresses 20 EWP's**
- **Incomplete milestones and AWP outcomes**
 - **1 EWP = 40 drawings with 1 HOLD on 1 drawing, vendor data milestone credit and AWP dialogue**
- **Does not plan for the future**
 - **Future revisions not accounted for**



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Implementation Learnings

- **Determining the ‘who’**
 - Does not have to be the engineer (should not be the AWP Champion)
- **Promote discussions**
 - It is not meant as a stick



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Questions ?



Thank you !

For further information:

Visit the COAA website: coaa.ab.ca

contact: admin@coaa.ab.ca

