

ICMS and De-Carbonising Construction

Presented at the FIG e-Working Week 2021,
21-25 June 2021 in Virtually in the Netherlands

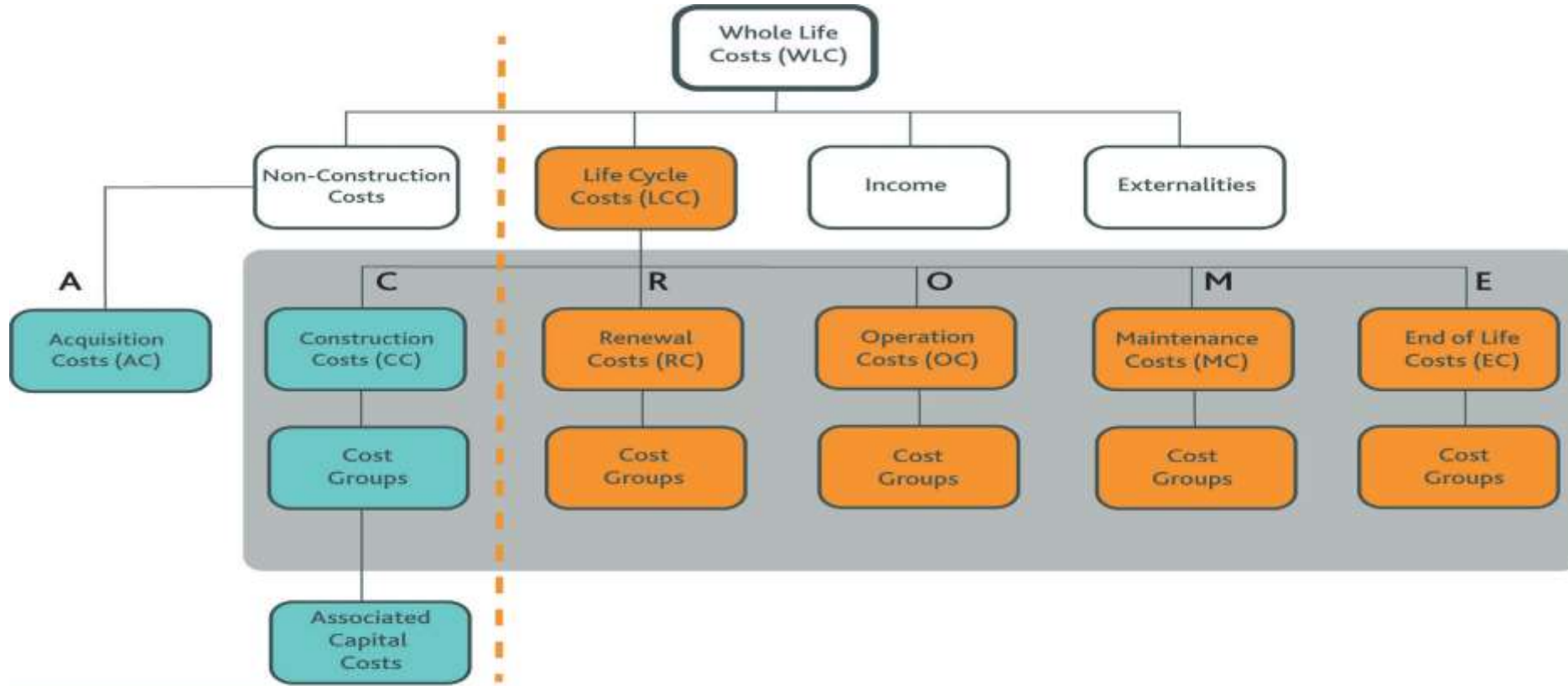
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Principal changes between ICMS 2 and 3

- As little change as possible
- Extended to include Carbon Emissions
- Cost Categories, Groups and Sub-Groups changed to
- Categories, Groups and Sub-Groups
- Incorporates five new project types
- Additions and extensions to Categories, Groups, Sub-Groups and attributes for new project types
- Ditto for Railways
- Other minor amendments



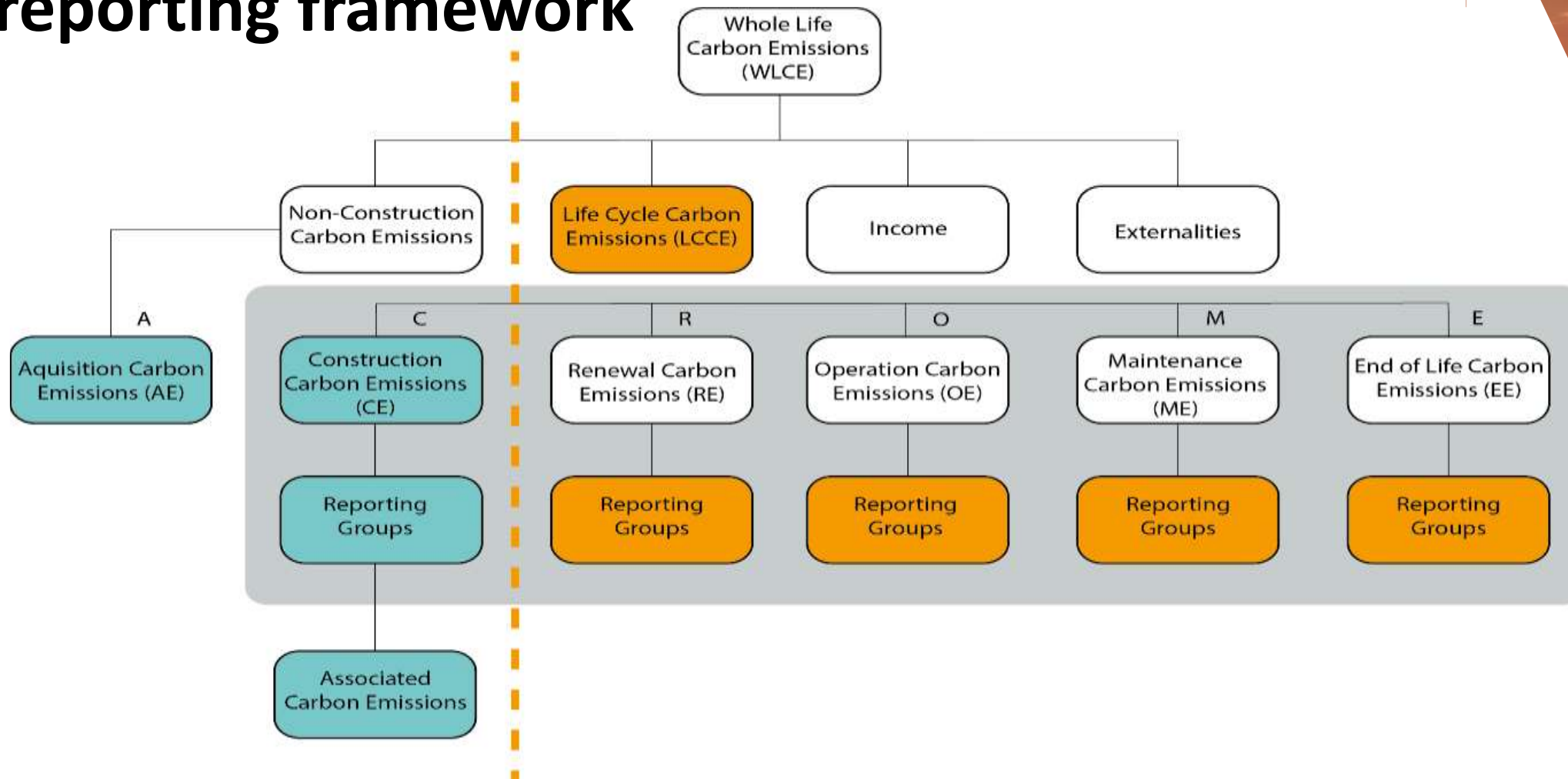
ICMS 2 – Relationship between ICMS, Life Cycle Costs (LCC) and Whole Life Costs (WLC)



ICMS 1st edition

ICMS 2nd edition (Construction and Other Life Cycle Costs)

ICMS 3 – Cost and Carbon Emission (CCE) reporting framework



New project types

- Offshore structures
- Near shore works
- Ports
- Waterway works
- Land formation and reclamation



The Railway Corridor

Diagram showing the cross section of a four track railway corridor alignment including overhead traction power supply to two tracks.

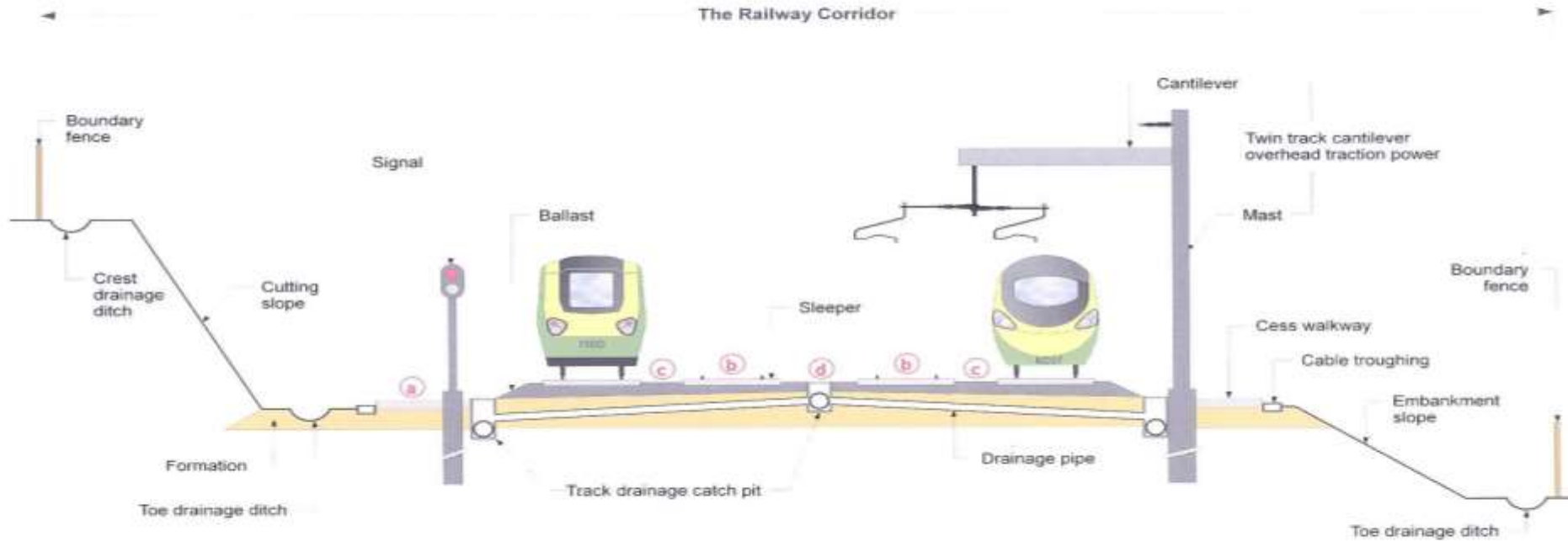


Figure 9: The 'Railway Corridor':

- (a) Cress walkway : Safe walking area beside the track
- (b) Four foot : Standard interval between running rails of standard gauge track
- (c) Six foot : Standard interval between a pair of tracks
- (d) Ten foot : Standard interval between groups of tracks

Changes to Railways

- Added Sub-Groups “Control systems” and “Signalling”
- New attribute "operational telecommunications system" with the values "fixed telephone network | other stated"
- New attribute "ruling gradient"

ICMS

To compare like with like there is no alternative

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