Construction Credits





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EPAs in the context of construction



- The rationale for EPAs is one of risk reduction
 - Early qualification of designs
 - Early development of processes in AIV, operations
 - Platform for software development
 - ...
- Thus costs should be constrained to that strictly necessary to reduce risk and to contribute hardware, software and infrastructure to the final build
- 'Allowable expenditure' will be somewhere between the value of the products that are finally used in the Telescopes and the limit of investment which would make the EPAs worthwhile



Construction Credits

- Contributions to the EPAs are expected to be exclusively in-kind, but cash is possible
- Contributions will be counted as Construction contributions, hence earning Telescope access rights
- Construction Credits are proposed to account for this, and these need to be calculated in a fair and transparent way
- The final implementation of CCs is a matter for Funding Schedule negotiations
- Using Construction Credits to calculate Fair Work Return is TBD

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Construction Credit calculation

- For in-kind contributions, either (whichever is latest available):
 - Consortium costing
 - Office 'adjusted' costing
 - Independent 'non-advocate' costing
 - Basis (location of manufacture/coding, etc) TBD
- Adjusted by:
 - Timeliness of delivery
 - Conformity to requirements/ EPA needs
 - 'Representativeness', necessity, etc. TBD
 - Exclusivity
 - Other Key Performance Indicators...
- Plus any cash contribution
- To not include:
 - Taxation
 - Import duties

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Issues

- Status and basis of the cost evaluation
- Adjustments
 - Adjustment 'coefficients'
- Credit for 'unrepresentative' H/W & S/W
 - i.e. products not being qualified
- Disadvantages of early implementation (pre-IGO)
 - Tax
 - Inefficiencies in procurement, lack of scale, etc
- How to maximise benefits (and hence credit) of cash if available
- Ownership of, and CC for, tooling
- Accounting of CC as FWR