

# Grouping Estuary Restoration Projects for Carbon Markets - Efficiencies at Scale

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# Outline

- The need for grouping
- Example from other land use sectors
- Requirements for grouped projects



## The Need For Grouping

- Many carbon projects are individually too small to embark on carbon development or conversely too large to develop all in one go
- May hold true for estuary restoration: estuaries may easily span large territories with numerous (small) land owners
- Example: Snohomish Estuary restoration
  - Potential carbon income per acre (annually): \$50
  - Qwuloolt (400 acres): \$20,000 per year
- Project validation and verification: \$50-200,000

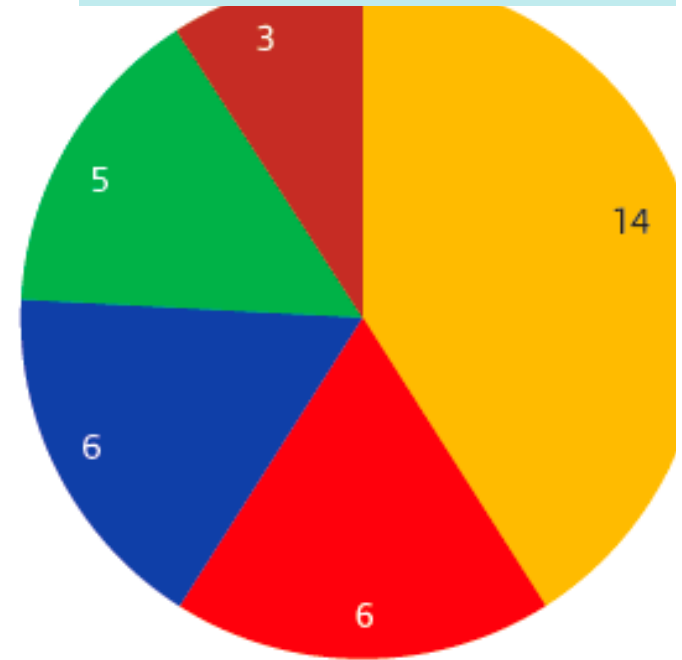
# CDM



Registered PoA per project type

Solar	19%
Energy efficiency households	19%
Hydro	16%
Methane avoidance	14%
Hybrid renewables	9%
Landfill gas	6%
Wind	5%
Other	12%

# Gold Standard



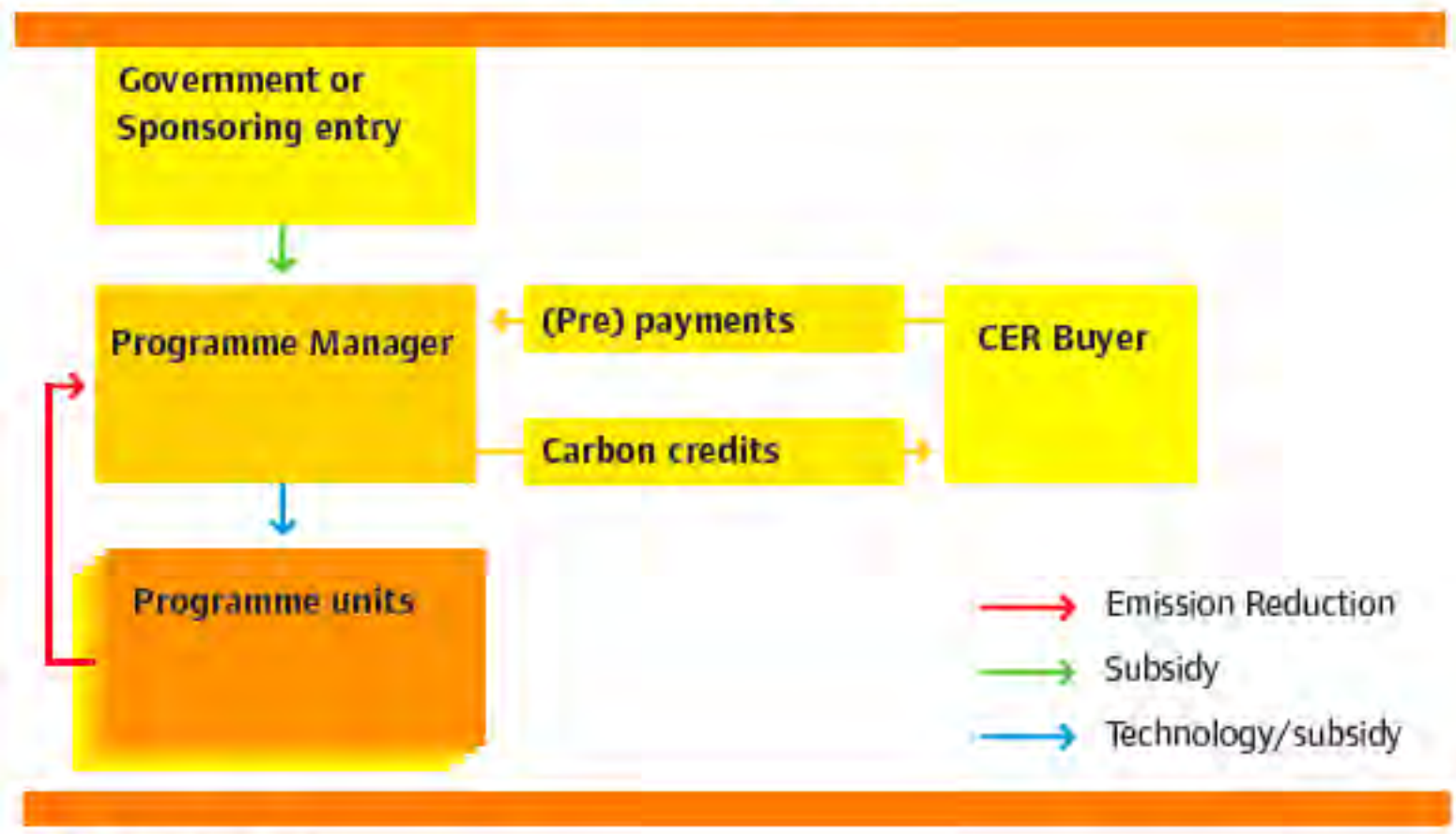
Cookstoves	41%
Energy efficiency	18%
Renewable energy (excl. biogas)	17%
Biogas	15%
Water filtration	9%

VCS: 3 registered land use projects

## Lower Mississippi Valley Grouped Afforestation Project The Nature Conservancy

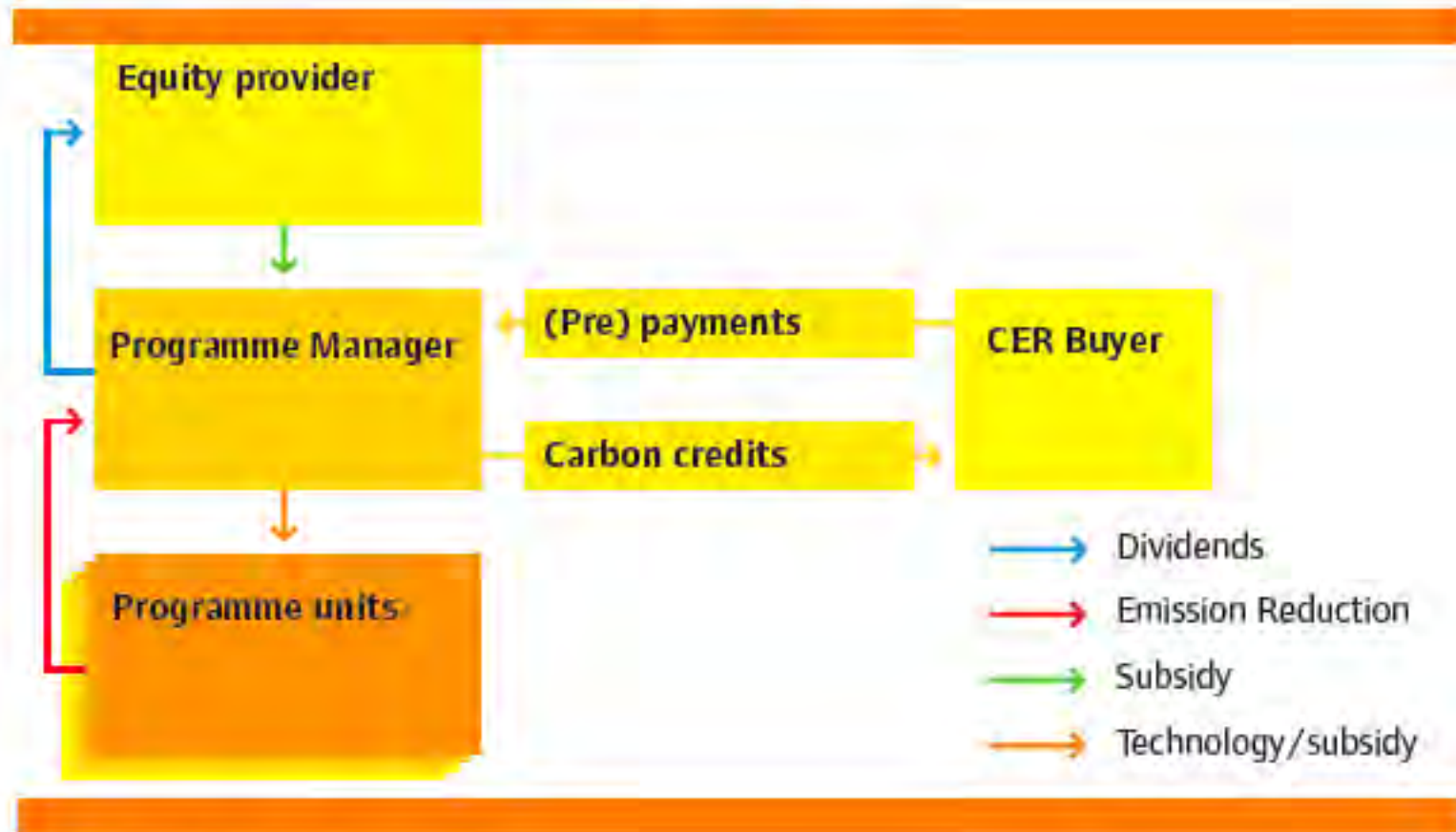
- Reforestation of degraded areas incl. catfish ponds
- Subsidy from USDA conservation program
- The project is targeted at landowners who would not have enrolled without the additional funding provided by the grouped project
- The project has reserved the rights to the carbon credits through:
  - “Assignment of Carbon Rights”
  - “Grant of Conservation Servitude and Rights of Use”
- Meets VCS requirements (AFOLU and Grouped Projects)

## The subsidy model

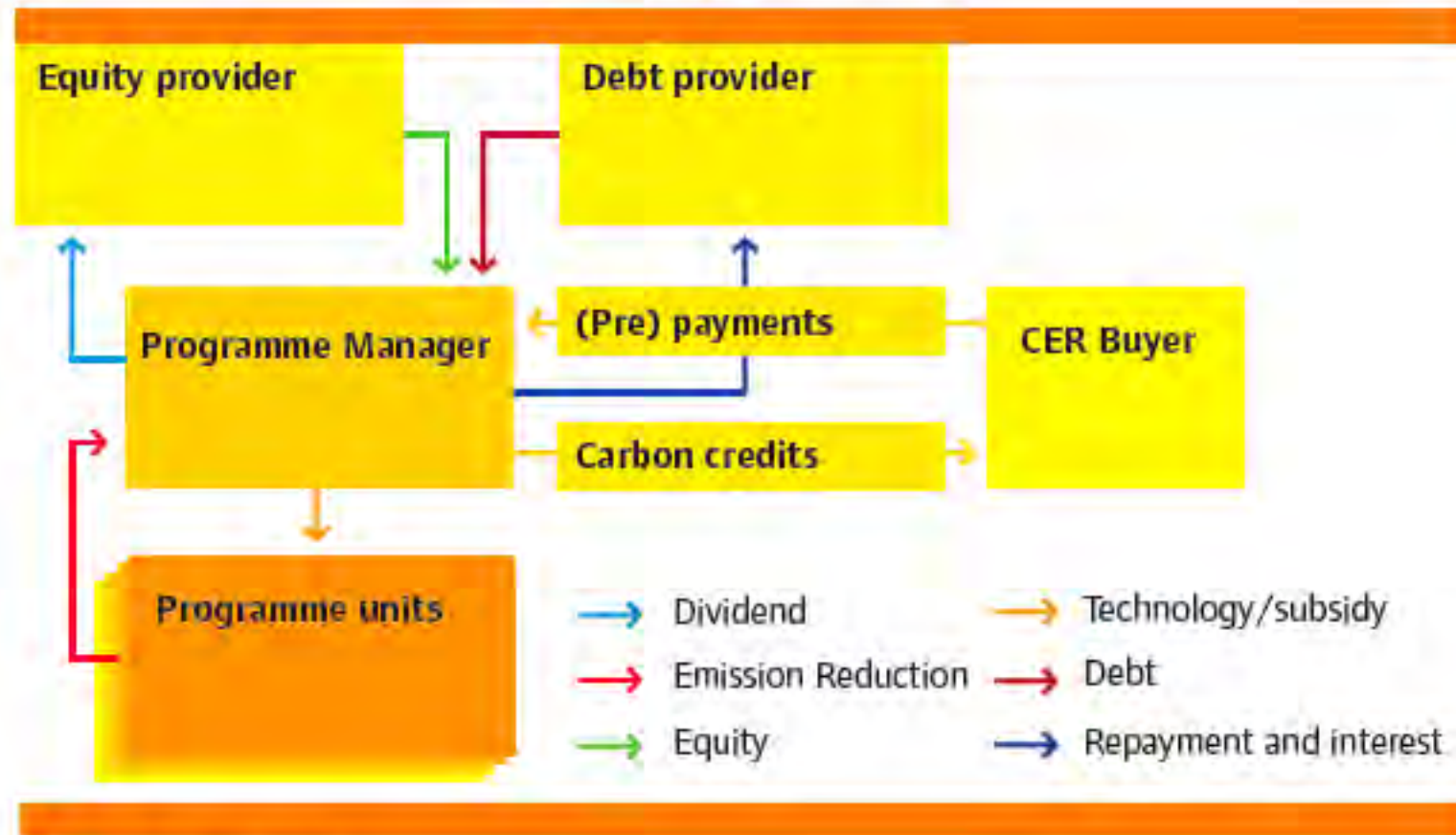


- Emission Reduction
- Subsidy
- Technology/subsidy

## The equity model



## The equity/debt model







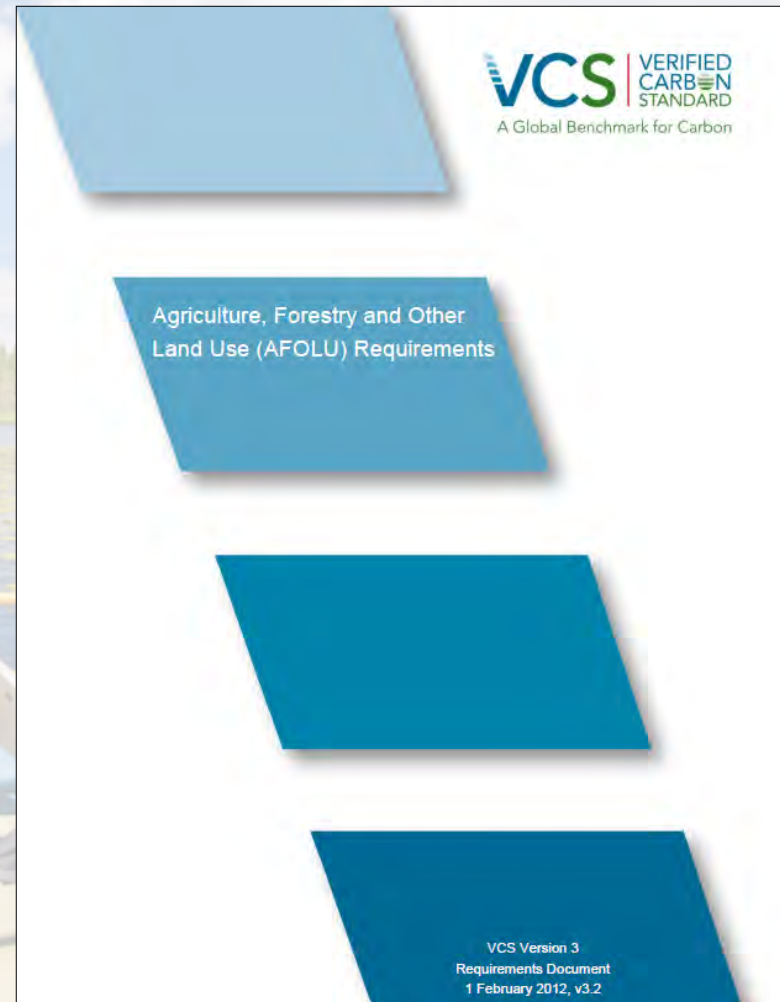
## Verified Carbon Standard (AFOLU)

- Afforestation, Reforestation, Revegetation (ARR)
- Agricultural Land Management (ALM)
- Improved Forest Management (IFM)
- Reduction Emissions from Deforestation and Degradation (REDD)
- Avoided Conversion of Grasslands and Shrublands (ACoGS)
- Wetlands Restoration and Conservation (WRC)



# VCS AFOLU Requirements

- Project Requirements
- Methodology Requirements
- Validation Verification Requirements
- Incl. requirements for Grouped Projects





- New areas may be added over time
  - No need for contractual arrangements with all future areas from the start
- No need for contiguous areas
- New areas must meet eligibility criteria set out in the validated and approved Project Document
  - E.g. same baseline scenario (multiple scenarios may exist)
  - Same implementation methods
- Most important issue in project validation: appropriate structure of the project aggregator

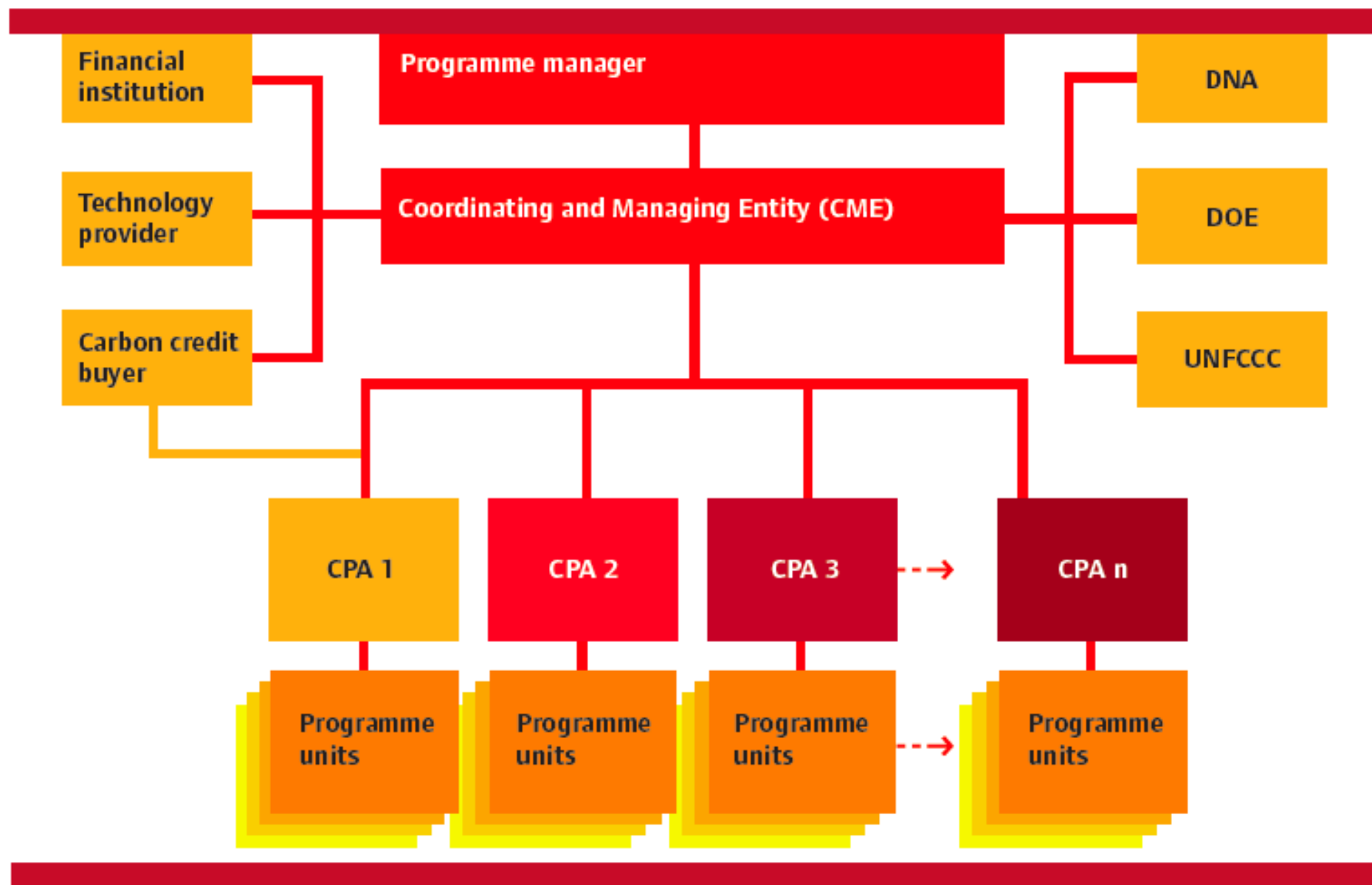


## Programme management integrates diverse tasks



## Communication channels within a PoA.

The programme manager and the CME can be the same entity.



Thank you

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