Technical Workshop on Reference Levels for REDD+ World Bank, November 9-10, 2011



Draft Methodological Framework for REDD+ Reference Levels

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Why is a framework needed?

UNFCCC calls for the development of a national forest reference emission level (REL) and/or forest reference level (RL) for REDD+:

- What methods and data should be used?
- Over what timeframe?
- How to project into the future?
- National or summed subnational RLs?
- What approaches are already available?
- How much is negotiated?
- What can be done in the near term?



Goals of a Methodological Framework

Framework should be:

- Flexible
- Practical
- Feasible
- Acceptable to FCPF Member Countries
- Succinct
- Useable

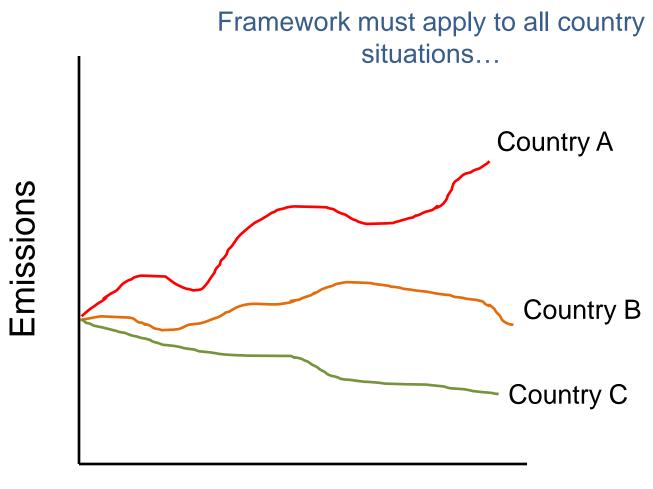
Framework should:

- Summarize major approaches and methods for RL development
- Define interim steps best suited to countries in the near term





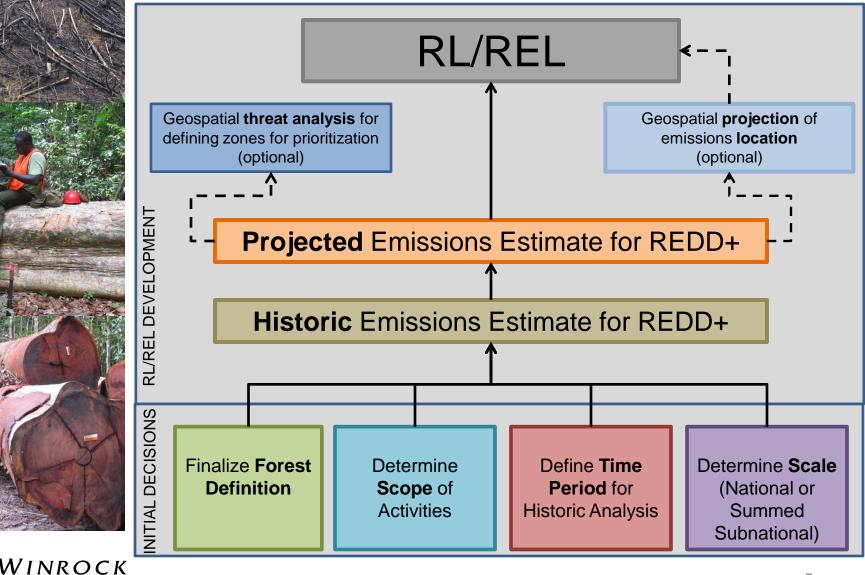
Where to begin?



Time



Draft RL/REL Framework





Key Questions

What guidance is available for countries to decide the following?

- How to define forests for REDD+
- Which activities to include (D, D, +) in RL
- How to determine a reference time period for RL
- How to determine scale of RL
- Others?

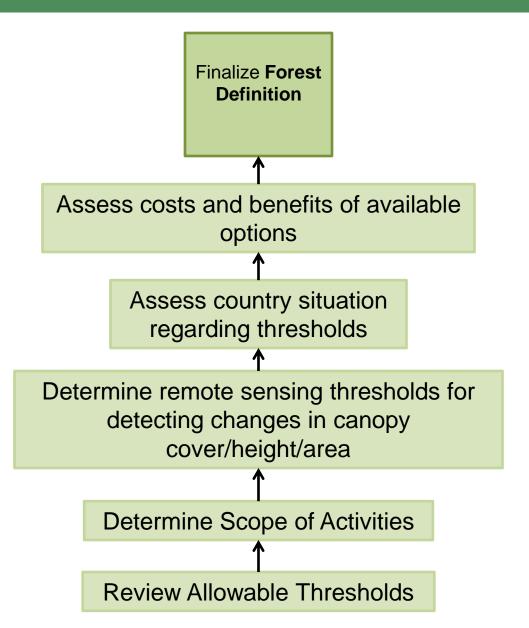




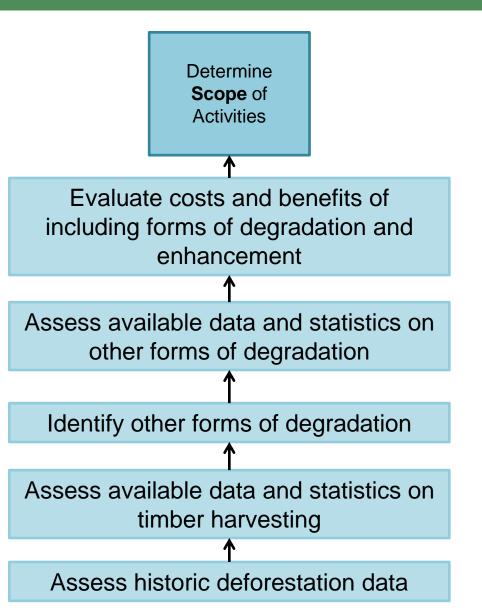
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Finalize Forest Definition









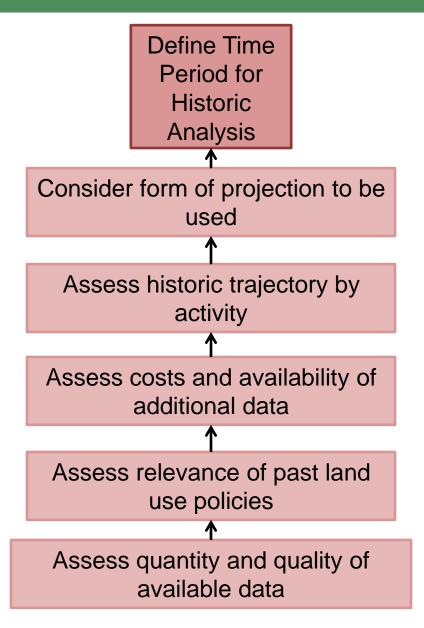




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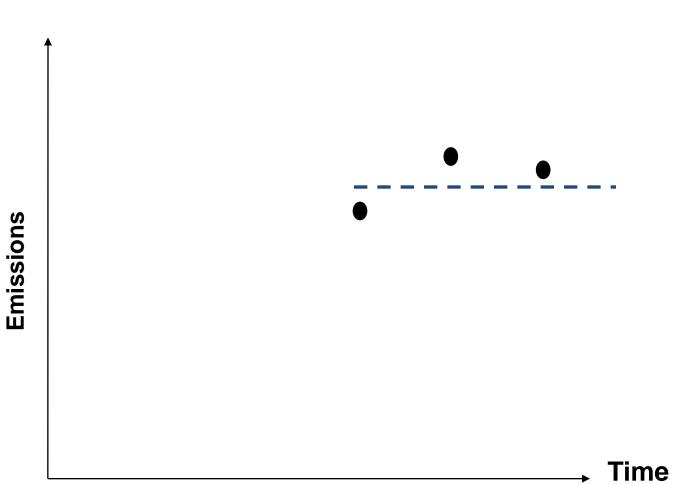
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Define Time Period for Historic Analysis





Define Time Period for Historic Analysis

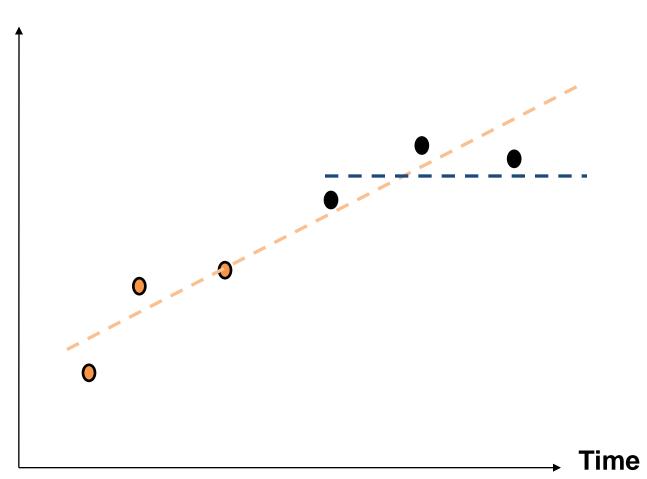




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Emissions



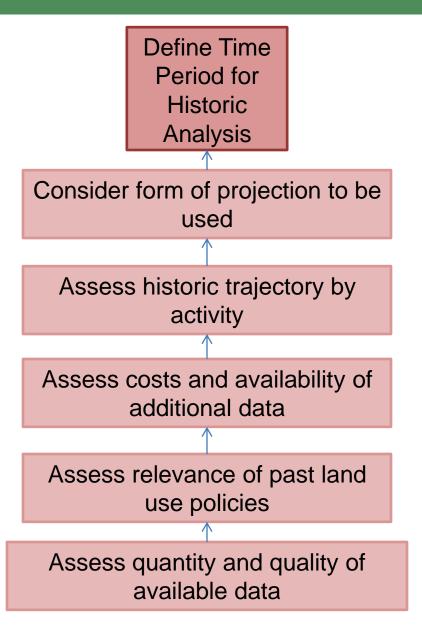
Define Time Period for Historic Analysis



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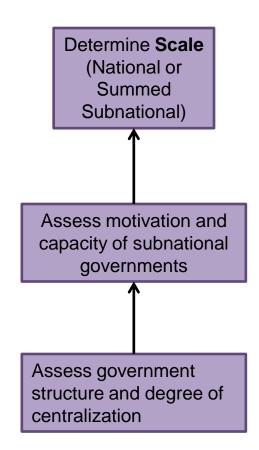
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Define Time Period for Historic Analysis



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Determine Scale



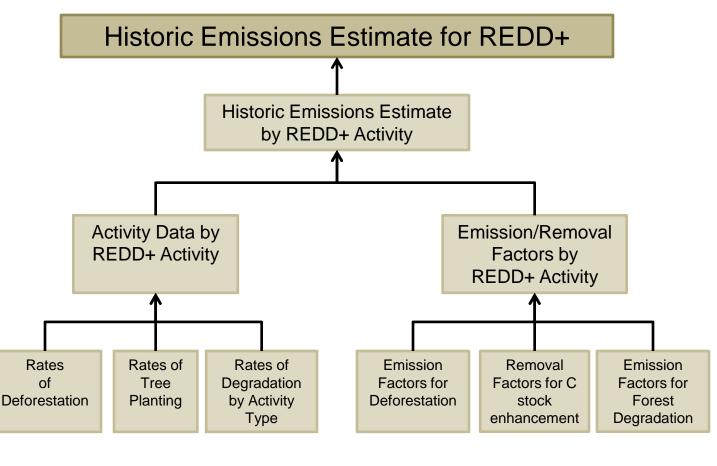




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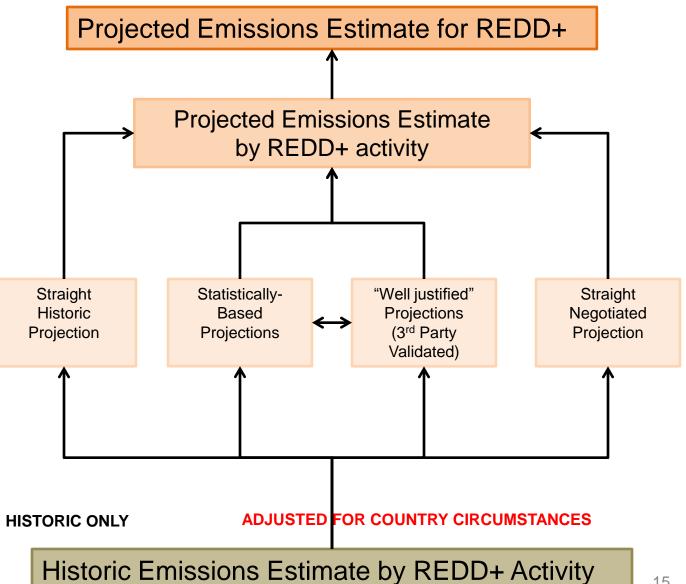
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Historic Emissions Estimate for REDD+



ACTIVITY DATA EMISSION/REMOVAL FACTORS

Projected Emissions Estimate for REDD+



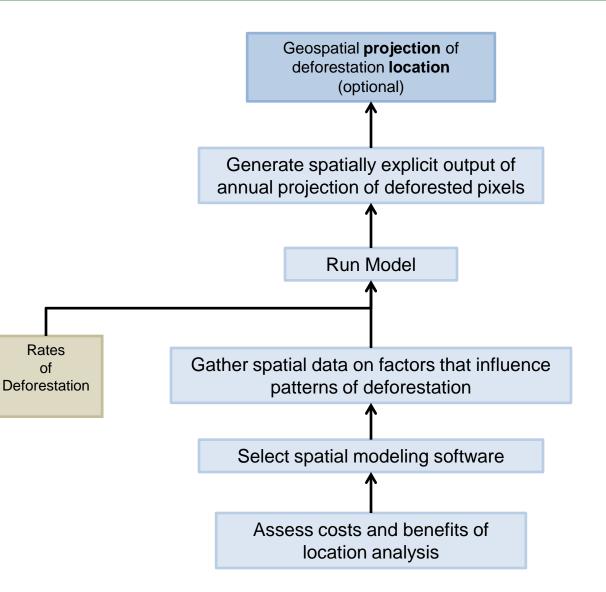


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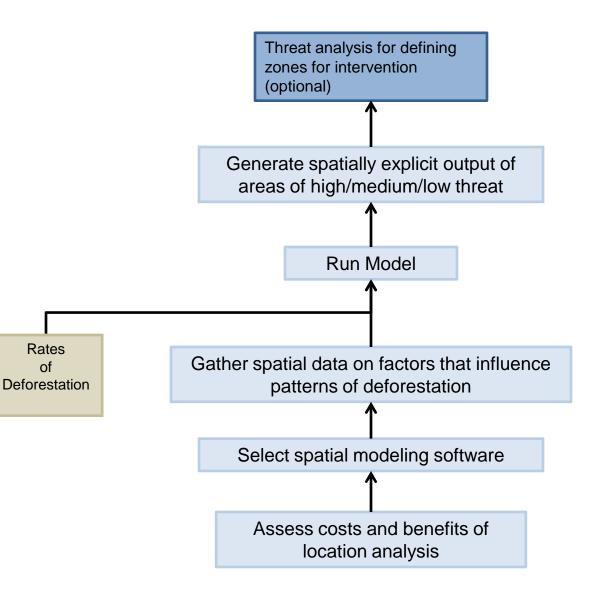
Projecting Specific Locations of Future Deforestation





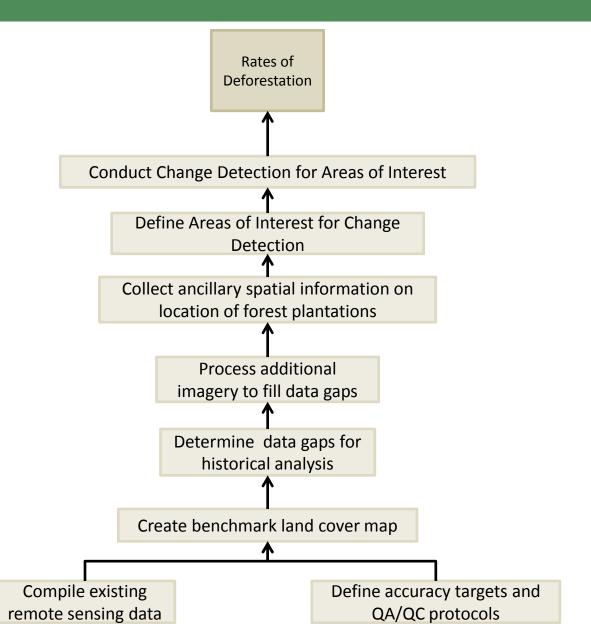


Projecting Zones of High Threat



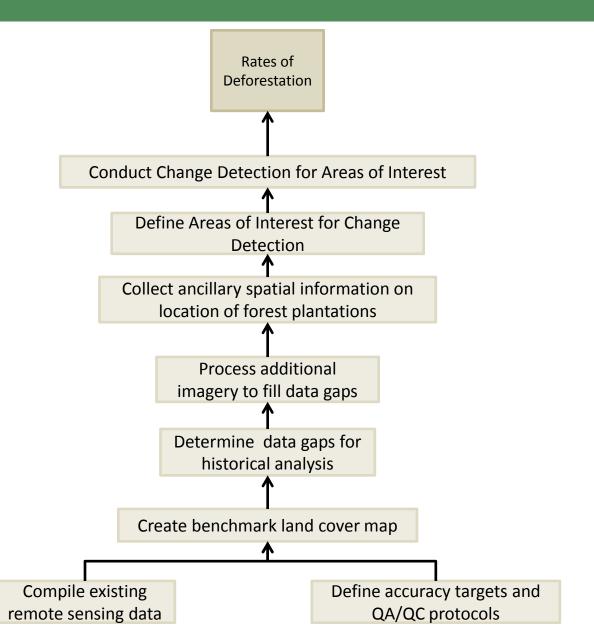


Quantifying Rates of Deforestation



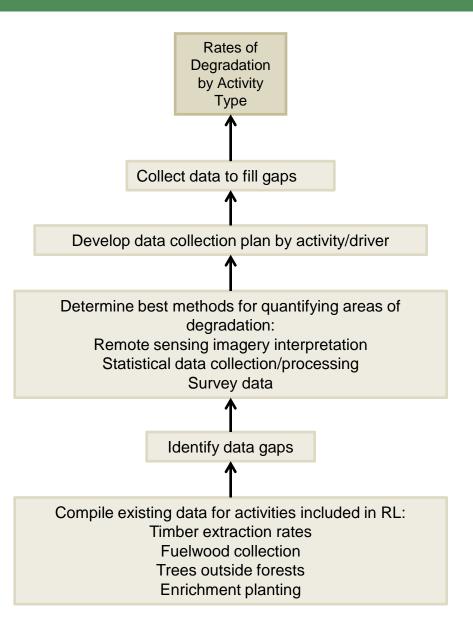


Quantifying Rates of Deforestation





Quantifying Rates of Degradation

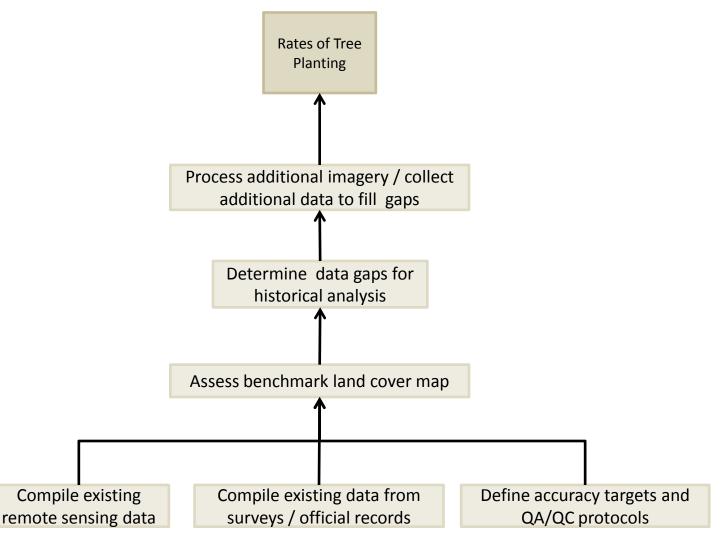




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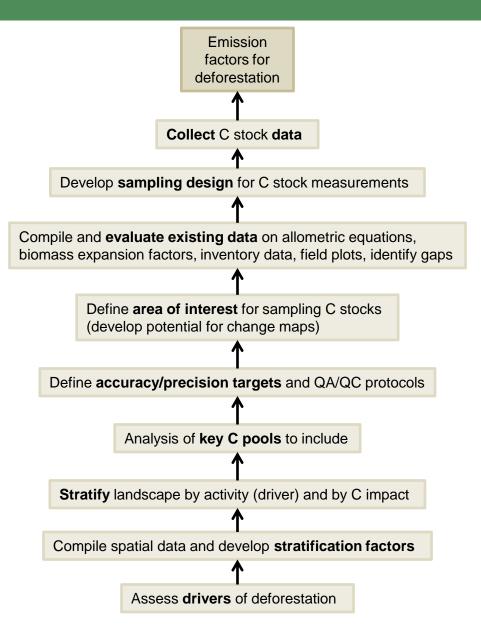
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Quantifying Rates of Tree Planting



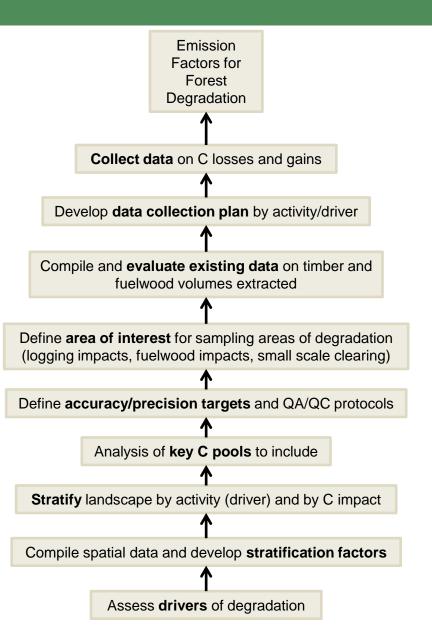


Emission Factors for Deforestation



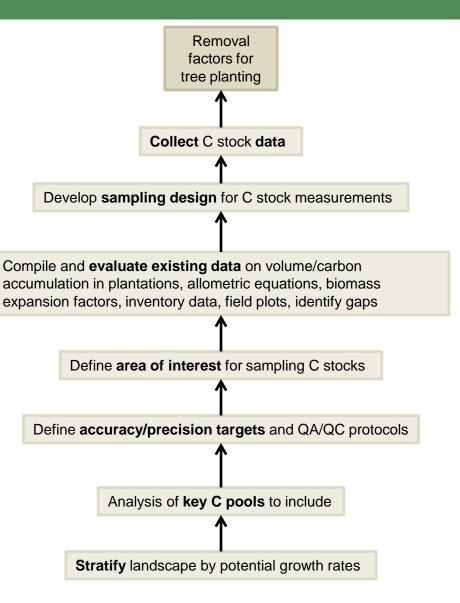


Emission Factors for Degradation





Removal Factors for Tree Planting









Create benchmark land cover map

Required Capacity:

 Checklist of human and technological resources necessary to carry out the work

Data Sources:

Links to websites where remote sensing data can be downloaded

Additional Information:

Links to further guidance on this step

Overview of technical steps:

<u>Step 1</u>: Determine appropriate benchmark year. The year of the benchmark map will be determined by the decision made regarding the time period for historic analysis.

<u>Step 2</u>: Determine appropriate imagery source. This decision will be affected by which data source has the best coverage for the area of interest, least cloud contamination and data gaps, in-country capacity for processing the type of imagery considered, etc.

<u>Step 3</u>: Select method of imagery interpretation. This decision will be affected by the training and software requirements, replicability of results, accuracy, validation plan, etc.