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Costing Model for WATERS Network

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WATERS NETWORK

DUKE
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WATERS Network

- WHAT? -- A joint initiative between the hydrologic science and environmental engineering research communities and funded by the National Science Foundation (NSF)

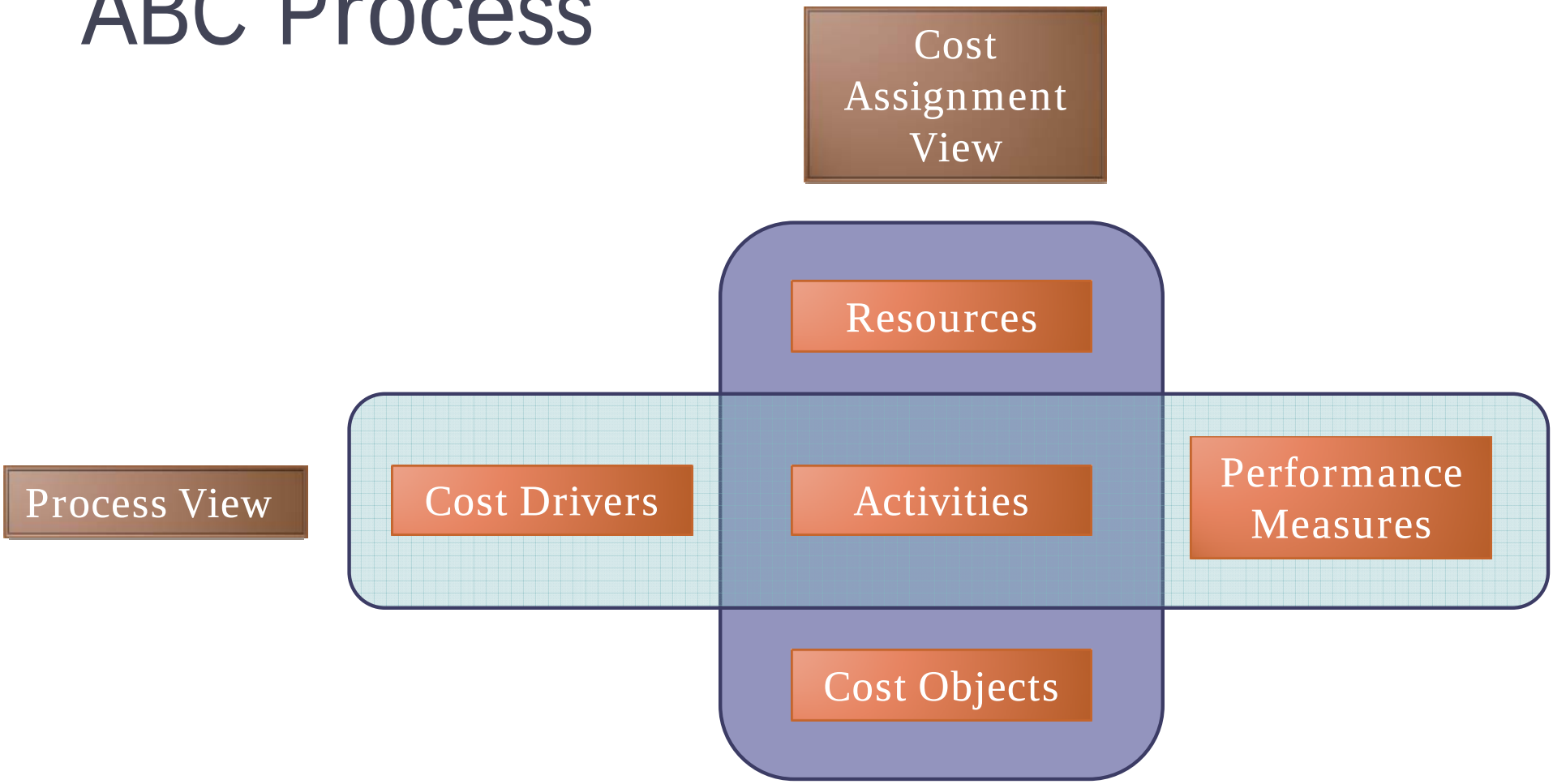
- WHY? -- To further the scientific understanding of water as an integrated resource and the effects of anthropological activities.

Amalgamation of Two Costing Models

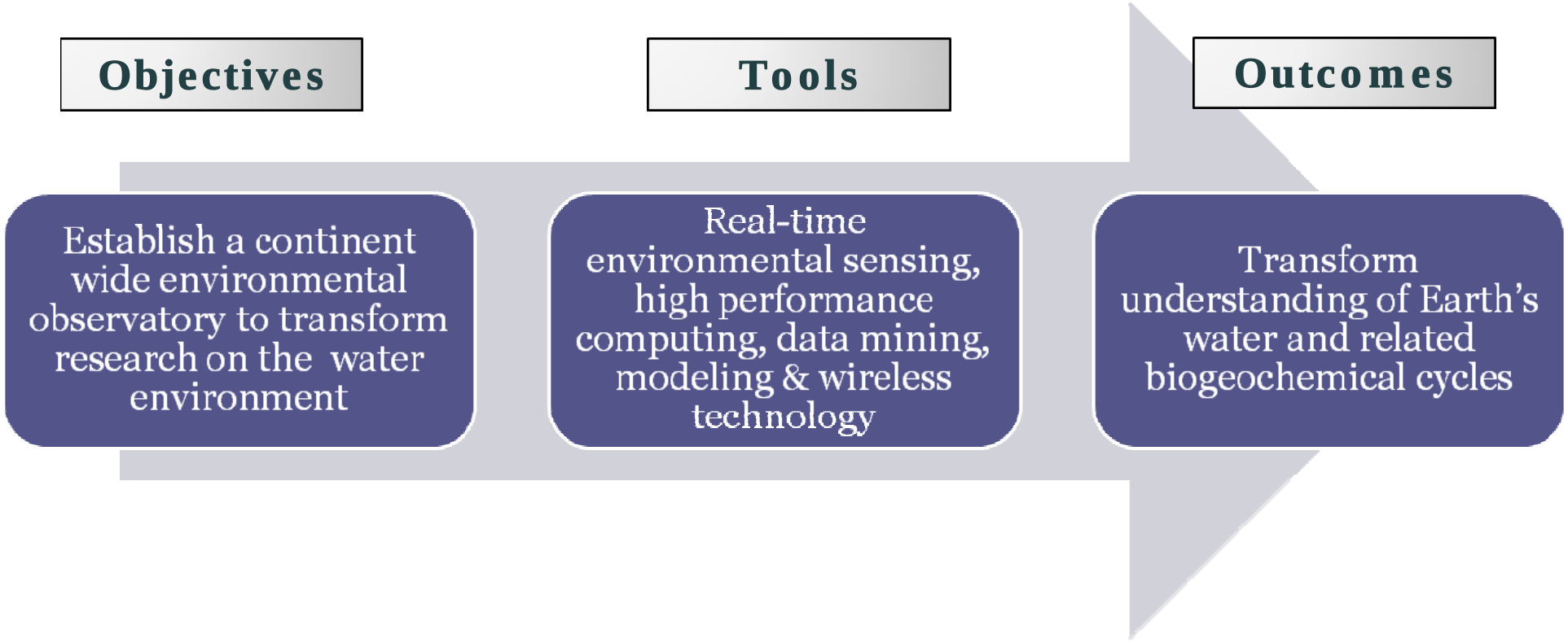
- The ABC Cost Analysis Process
  - 2-pronged ABC process : Cost View and Process View

- Four part cost estimating methodology
  - Will be adapted substituted for the 'cost assignment view' of the ABC model

Brief Recap of the Models: The ABC Process



Process View of ABC Model as applied to WATERS



Cost Estimating Methodologies

- In order to begin costing for the project we used the following steps to determine project cost:
  1. Develop Primary Layout
  2. Expert Estimation
  3. Engineering Estimation
  4. Actual Cost

- Table below explains the information gathering technique used at each step

Cost Estimation Methodologies (contd.)

	Develop Primary Layout	Expert Estimation	Engineering Estimation	Actual Cost
Steps to be taken to establish cost	Information gathered by our team from research documents provided by the WATERS team	General scientific research lab estimate, based on current market trends	Estimation of costs after consulting vendors particularly sensor and platform hardware	To be confirmed on site, nearer time of project completion upon finalization of installation

WATERS Costing Model Layout