



2011 World Materials Summit

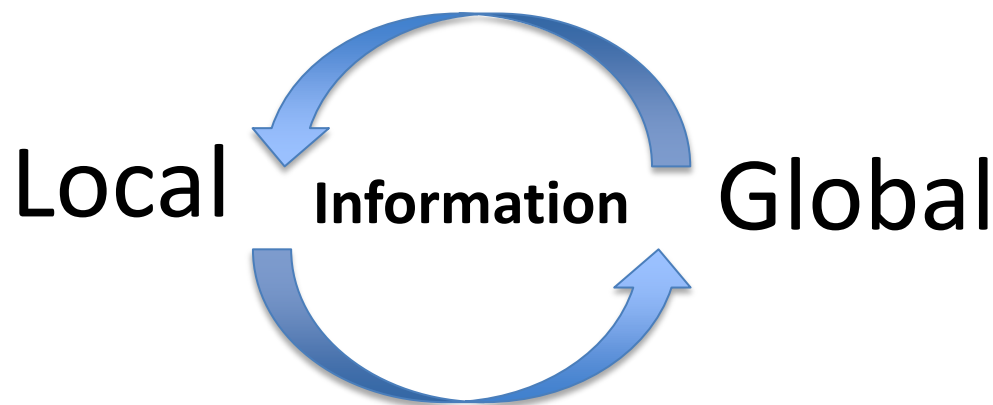
Panel Discussion Energy

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Motivation

- Each region has different resources and technological needs for energy production
 - ➔ Different priorities
- Decisions on energy will ultimately be made locally but will have a global impact
- Information needs to be globally shared



How can we proceed?

- This calls for **diversity** in both research and deployment of solutions, on different timescales
- The materials community should inform the global community of the technological options with **unbiased data** and evaluation metrics (e.g. greenhouse gas emissions, lifetime cycle analysis, etc)



How can we proceed?

- The Material Societies can improve the information flow
 - The society should provide better information based on the following internationally agreed on metrics:
 - GHG emissions (actual, potential reductions)
 - Lifecycle analysis (LCA)
 - Risk assessment and reduction
 - Region specific assessments of potential technologies
 - MRS should facilitate the creation of the **standards** of these **metrics** so we can all report and make decisions based on those metrics



Key Statement

- Provide unbiased reporting and analysis of energy technologies based on standardized sustainability metrics such as:
 - GHG emissions (actual, potential reductions)
 - Lifecycle analysis
 - Risk assessment and reduction
 - Region specific assessments of potential technologies

