Observations and Perspectives

- Opportunities for breaking new ground and leading with implications beyond mathematics
- Ideas that have come up before where renewed commitment from the community seems possible now
- Areas that might be themes with more discussion

OR:

- New ideas
- Old ideas
- Missing ideas
Opportunities for breaking new ground and leading with implications beyond mathematics

- “surfacing” and sharing local promising practices
- bringing effective practices and approaches to scale
- “own” the technology issues and innovations
- “culture the change” idea around faculty rewards, institutional practices that support innovation and improvement
- designing networks of committed participants and institutions across institution types
- communicating success and commitment
- data science/inclusion of new content
Ideas that have come up before where renewed commitment from the community seems possible.

The national spotlight is turning on mathematics as we appreciate its central role in the economic growth of this country.

—Calculus for a New Century, 1988
Ideas that have come up before where renewed commitment from the community seems possible:

- Pathways approach to mathematics learning
- Inclusion of all students
- Focus on the learners’ needs, meet them where they are
- Connecting research effectively to undergraduate learning
- Cooperating with other disciplines
- Leadership from the professional societies
- Departments as units of change
Areas that might be themes with more discussion

- importance of data, evidence, common outcomes
- role of mathematics education research to help with improved undergraduate teaching and learning
- potential of graduate students and early career faculty to be mobilized to contribute to this reform
- using policy change within institutions as a key part of this effort
- relationship to changes in K-12 education
- preparation of mathematics teachers at all levels
- connections to industry
- new partnerships: community colleges, 4-year liberal arts colleges
To think about ....

- What would success of the “TPSE Campaign” look like? What is the vision?
- What would we need to measure, so that adjustments can be made along the way, to get there?