A Purdue effort in Future Manufacturing

**Intention:**
- Launch emerging competence areas
- Nucleate new topic mergers
- Seek “to-dos” and “not-to-dos”

**Profile:**
- High risk “game changers”
- Strong leverage potential
- New collaborative teams

**Proposal facts:**
- seed funding
- $250k (approx. @ 50k/project)
- teaching effort integration possible
- call for proposals April, 2018

The **high dynamics** in today’s manufacturing development provide **unique opportunities** for innovation by **novel cross-disciplinary competence mergers** in both **technology and curriculum development**
What is industry asking for today?

**Implementation speed**
- Innovation cycle efficiency
- Added value offerings
- Smart support tools

**Manufacturing agility**
- Production flexibility
- Tailored mass production
- Parallel design/production dev.
- Connectivity

**Resource efficiency**
- Tactical partnerships
- Workforce development
- Supply adeptness (LCE)
Proposal essentials

Addition content ideas:

- “Seed cultivation” for future large proposals (NSF, DOD, DOE, …..)
- Purdue unique and concrete opportunities based on current strengths (“split-vision”)
- “Out-of-the-box” opportunities and collaborations
- Innovative curriculum opportunities (professional education, workforce development, etc.)
Tentative agenda (discussion leaders):

- **March 26**: e-mail reminder about the EFC event  
  (Raman/Crawford)

- **April 2**: 4 (max 5) PowerPoint slides to be presented during the EFC-forum April 6.  
  (content e.g. motivation / opportunities / future funding potential)  
  Send to: Crawford/Raman/Mansson  
  (Discussion leaders)

- **April 6**: EFC-forum 11.30 – 13.00. 4 minutes presentation by each discussion leader  
  + leading the thematic discussion group  
  (Discussion leaders)

- **April 7**: Short (bullet form) proposal content ideas (vision, content etc.)  
  Send to Crawford/Raman/Mansson  
  (Discussion leaders)

- **April 9 - June**: Proposal & Funding administration  
  (Raman/Crawford)
  - **April 9**: Call for proposal announced
  - **April end**: Proposal submission deadline
  - **May mid**: Announcement of funded projects
  - **May end**: Funding allocated
Workshop questions (discussion leaders):

- Potential themes (3-4)
  1) ..............................................................
  2) ..............................................................
  3) ..............................................................
  4) ..............................................................

- Indicate for each of the potential themes
  - What are the barriers today
  - Potential impact
  - Potential partners
  - Why the theme suits Purdue
  - Education opportunities & Outreach