INTRODUCTION OF NEW STRATEGIC AND OPERATIONAL LEADERSHIP

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Trilinos Users Group 2023
10:30 am October 31st, 2023
MOTIVATION

- Demands of several issues had caused a focus on short-term tactical responses
  - Lack of Master Merge updates
  - Turnover of Framework team members
  - Removal of UVM from Trilinos and ASC Stakeholder applications
  - Many more ...

- Lack of focus on more strategic planning
  - What technologies on the 5-year horizon should we be investigating/researching?
  - What funding opportunities should we prepare for?
  - Who is championing at SC, vendors, labs, application teams, and other frameworks?
  - Who is informing developers on the latest technologies?
  - ...
NEW LEADERSHIP STRUCTURE

• **Strategic Leadership**
  • Leads will primarily be defining and developing Trilinos strategic research directions to support future application needs over the next five years.

• **Responsibilities**
  • Be aware of cutting-edge technology on the 5-year horizon
  • Ensure robust funding for strategic priorities
  • Be aware of strategic gaps in Trilinos
  • Maintain list of strategic priorities (~5)
  • Interface with external teams (e.g., PETSc)
  • Be Trilinos champions at SC, vendors, labs, application teams, and other frameworks
  • Prep/Train developers on latest technologies

• **Operational Leadership**
  • Leads will maintain many of the current responsibilities of day-to-day operations, interaction with stakeholders, and planning over the next two years.

• **Responsibilities**
  • Maintain DevOps Pipeline (CI/CD; hardware)
  • Handle stakeholder requests
  • Support Trilinos community
    • Website, wikis, TUG, “face/1st POC”, tutorials
    • Manage milestones
  • ...

Topics
NEW LEADERSHIP STRUCTURE

• **Strategic Leadership**
  - Should cover broad research areas
    - Algorithms Research
    - Big picture – vision for possible new areas
    - Software Sustainability
    - Long-term application needs

• **Current Strategic Leaders**
  - Mike Heroux
  - Eric Phipps
  - Siva Rajamanickam
  - Heidi Thornquist
  - Jim Willenbring

• **Operational Leadership**
  - Should cover operational areas
    - Product Manager
    - Framework Lead
    - New Area Leads
      - Representation for every package
      - Need to balance packages/effort

• **Current Operational Leaders**
  - Sam Browne – Framework lead
  - Christian Glusa - Solvers
  - Curt Ober – Product Manager
  - Roger Pawlowski – Trilinos Core
  - Mauro Perego – Discretizations and Analysis
ACTIVITIES SO FAR

• **Strategic Leadership**
  • New AS&T LDRD (funded) - Recommended to submit a proposal that didn’t get funding before
  • Software Stewardship Efforts – 3 proposals
    • PESO (M. Heroux, J. Willenbring)
    • OASIS (S. Rajamanickam, M. Perego, ...)
    • S4PST (C. Trott, S. Rajamanickam, ...)
  • Interactions/hackathons with vendors on upcoming platforms
  • EuroTUG coordination
  • SC23 meetings with vendors and other labs

• **Operational Leadership**
  • Trilinos DevOps Pipeline Planning
  • FY23 milestones and deliverables closed out
    • See Updates from Framework, Core, Solvers, and Discretization-and-Analysis
  • FY24 requirements gathering, prioritization, and assignments complete
  • Handle stakeholder requests
  • TUG 2023
COMMITTEE/INITIATIVE TEAM

- **Strategic Leadership**
  - Can form a team

- **Operational Leadership**
  - Can form a team

Committee/Initiative Team
- A leader from Strategic or Operational Leadership
- Bring in Trilinos developers
- Focused/Temporary “single” task
- E.g., milestone support
## CURRENT TRILINOS PRODUCT AREAS AND PACKAGES

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<th>Framework</th>
<th>Data Services</th>
<th>Discretizations</th>
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<th>Nonlinear Solvers</th>
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- **Package** – Slated for Archival in FY23-FY25
- **Package** – Snapshotted package
## Proposed Trilinos Areas and Packages

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TIMELINE

• Planning occurred April-May 2023
• Announced at June 13th, 2023 at the SART and Trilinos Developers Meetings

Meeting Schedule
• Strategic Meetings
  • Every 4th week
• Operational Meetings
  • Weekly the remaining three weeks

• Leaders can attend either meeting
  • To keep apprised and share input.