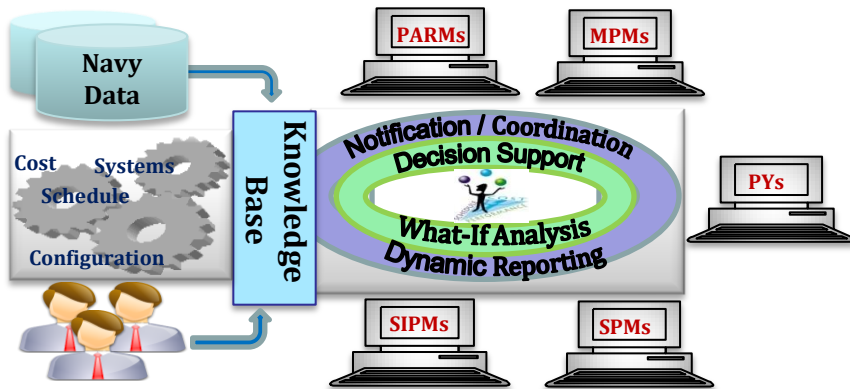


Acquisition Decision Expert Planning Technology Summary Module (ADEPT/Summary)



Technology Obj: Provide acquisition plan analysis, diagnosis, and repair support across programs.

Tech Challenge/Risk: A tool providing intelligent choices while addressing integration, scalability and usability by end-users' on real-world problems.

Navy/Prog Req't: Systems Integration Program Managers (SIPMs) and Major Program Managers (MPMs) lack coordination and decision support tools to model, plan, and track acquisition efforts across warfare systems programs.

Benefit/Payoff: By supporting better modeling and decision-making, the bottom line benefit will be a more capable fleet for any given level of investment and better management of program costs

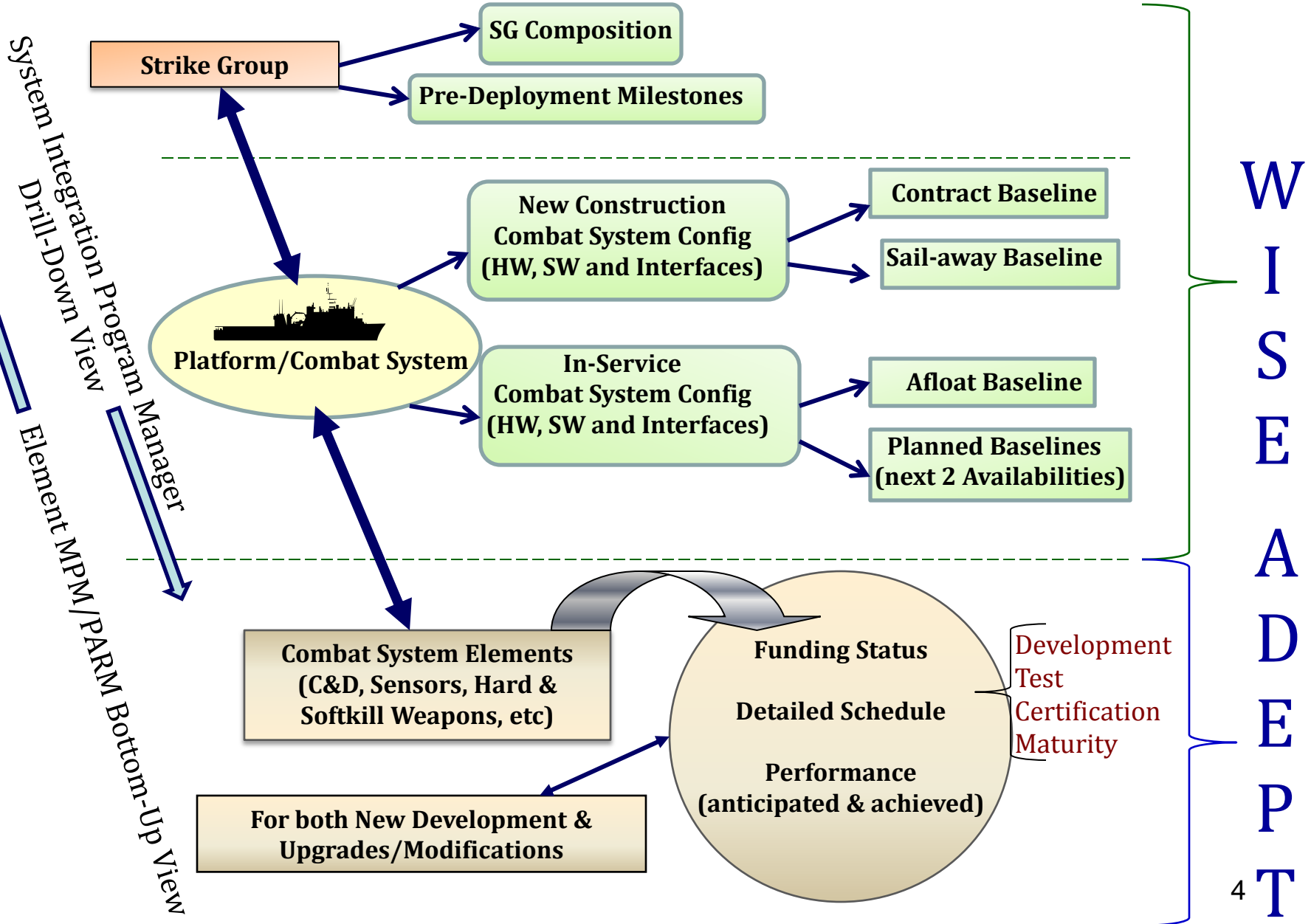
Deliverable: The product of this project will be the ADEPT/Summary module, integrated with WISE and ADEPT/PARM, and tested to TRL 7.

ADEPT/BENEFITS

- Improve process of Navy ship warfare-systems outfitting
 - Initial emphasis on back-fit
 - Eventual extension to forward-fit
- Support SIPMs/MPMs in coordinating across systems
 - Track major long-term milestones across programs/availabilities
 - Notice cross-system dependencies and their impacts
 - Special support for SIPM \leftrightarrow MPM messaging
- Provide SIPMs/MPMs adaptable decision support
 - Configurable reports and notifications
 - Extensible problem/risk recognizers
 - Extensible problem/risk response strategy suggestion
- Integrate with larger environment
 - Work within NMCI and other Navy restrictions
 - Work cooperatively with Navy systems (e.g. WISE)
 - Interoperate with “Project” (PARM) module

- AI-based problem modeling (representation)
 - Aiming for more conventional design/scalability + rules
- Expert decision-support tools
 - Cross-PARM project selection/merging
 - Multiple hypotheses explored/presented
 - Summary analyses: conjunctivities, critical path
- Advanced scheduling capabilities
 - Resource (budget) sensitivity with allocation heuristics
 - Factor in user preferences
- Intelligent reporting/coordination notifications
 - Filterable multi-project/hypothesis views with highlighting
 - Rule-based (time, event, condition -based) notification
- Web applications and services
 - Client launches from browser as Java WebStart
 - Messaging among multiple servers

WISE + ADEPT Operational Concept



ADEPT/Summary Problem Resolution Hub

Problem Resolution Tool: SCD = 7772, System = SPS-74
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Problem Resolution Hub

Click on any Start button to initiate a resolution strategy.

| | Funding Shortfall | Funding Shortfall | Missed Avail | Missed Avail |
|--|-------------------|-------------------|--------------|--------------|
| | \$100,000 | \$67,750 | CVN-76 | CVN-73 |
| | RDTE | OPN | 01/23/2012 | 01/09/2012 |
| | 2010 | 2010 | 12/17/2012 | 05/11/2012 |
| | \$0 | \$0 | 0 days | 0 days |
| | \$100,000 | \$67,750 | 107 days | 168 days |

Find More Money

| | | | | | |
|---------------------------|---------------|---------------|---------------|---------------|-------|
| From MPM's Reserves | (not visited) | (not visited) | (not visited) | (not visited) | Start |
| From MPM's Other Projects | (not visited) | (not visited) | (not visited) | (not visited) | Start |
| From Project Sponsor | (not visited) | (not visited) | (not visited) | (not visited) | Start |

Reduce Capability

| | | | | | |
|--|---------------|---------------|---------------|---------------|-------|
| Field Reduced Capability and Plan Upgrade Path | (not visited) | (not visited) | (not visited) | (not visited) | Start |
| Re-Scope Project to Reduced Capability | (not visited) | (not visited) | (not visited) | (not visited) | Start |

Drop Availabilities

| | | | | | |
|----------------------------|---------------|---------------|---------------|---------------|-------|
| Drop PARM-specified Avails | (not visited) | (not visited) | (not visited) | (not visited) | Start |
|----------------------------|---------------|---------------|---------------|---------------|-------|

Cancel Project

| | | | | | |
|--------------------|---------------|---------------|---------------|---------------|-------|
| Cancel the Project | (not visited) | (not visited) | (not visited) | (not visited) | Start |
|--------------------|---------------|---------------|---------------|---------------|-------|

Submit
Cancel

ADEPT/Summary Problem Resolution Step

Problem Resolution Tool: SCD = 7772, System = SPS-74
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Take Money from Other Projects (Step 1)





Use the sliders to adjust which attributes are most important in determining a project to take money from. Then, type amounts into the columns on the right to take money from a project.

High
|
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|
|
Low

High
|
|
|
|
Low

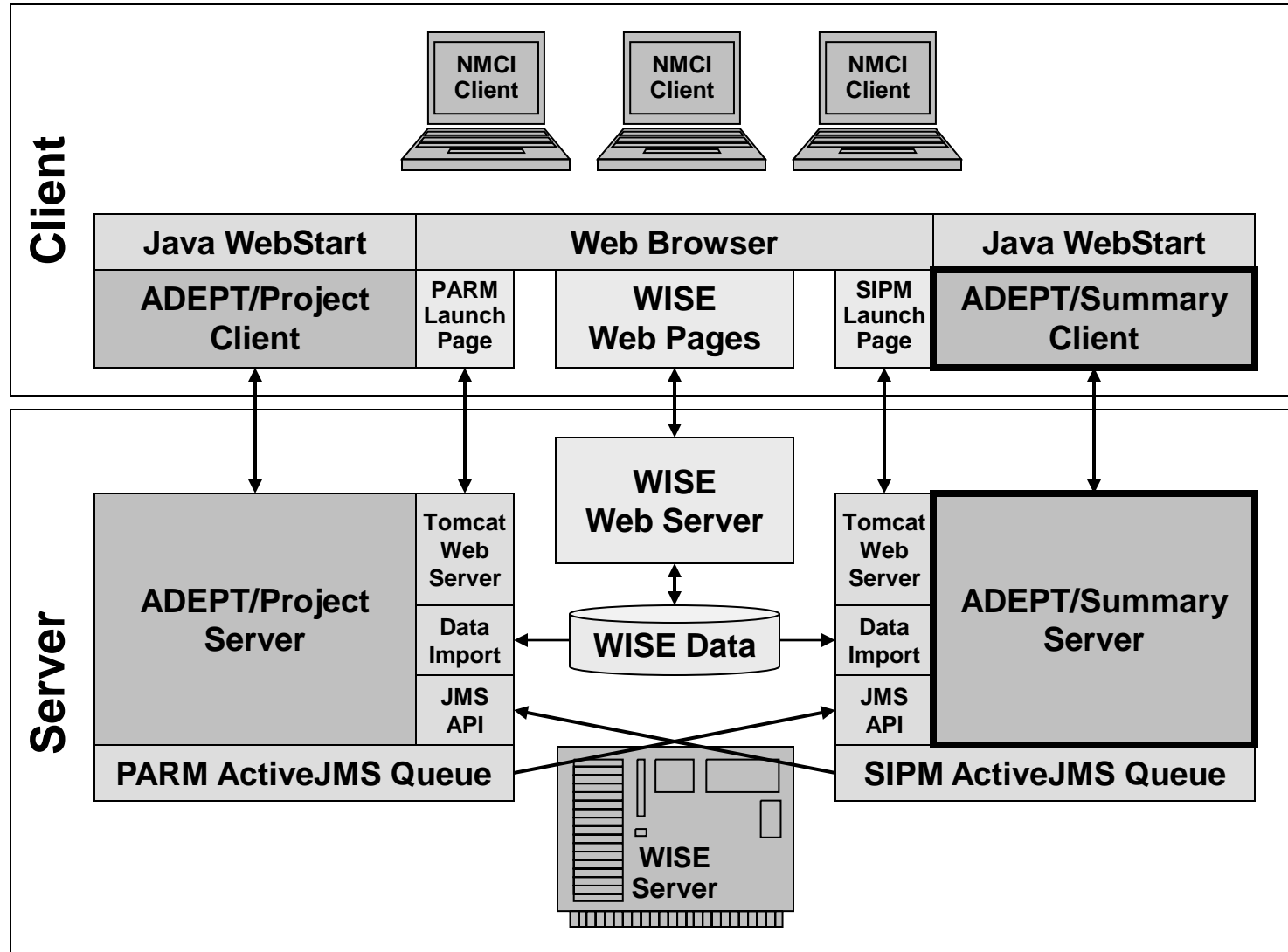
High
|
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Low

High
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|
Low

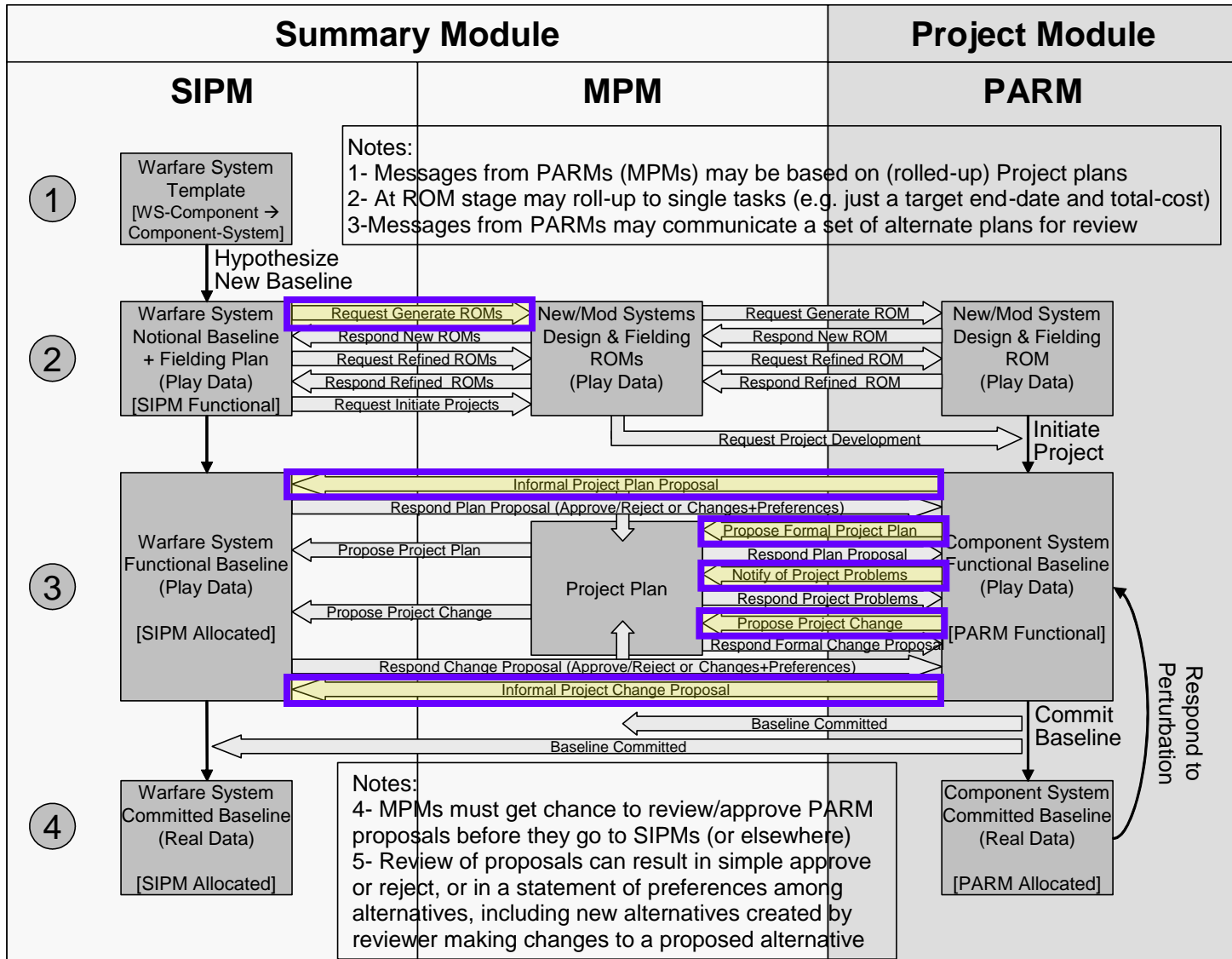
| Feedback | SCD Number | System |  AFOM Number |  CBA Number |  Schedule Float |  Conjunctivities | RDTE 2010 \$0 \$100,000 | OPN 2010 \$0 \$67,750 |
|---|------------|--------|--|--|---|--|---|---|
| + - | SCD 2067 | SPS-67 | 41 | \$100,000 | 0 | 0 | \$0 | \$0 |
| + - | SCD 3140 | SPS-67 | 57 | \$200,000 | 0 | 0 | \$0 | \$0 |
| + - | SCD 5656 | SPS-74 | 75 | \$100,000 | 0 | 0 | \$0 | \$0 |
| + - | SCD 4074 | SPS-67 | 44 | \$500,000 | 0 | 0 | \$0 | \$0 |
| + - | SCD 7772 | SPS-74 | 75 | \$100,000 | 0 | 0 | \$0 | \$0 |
| + - | SCD 6015 | SPS-67 | 61 | \$200,000 | 0 | 0 | \$0 | \$0 |
| + - | SCD 7773 | SPS-74 | 60 | \$500,000 | 0 | 0 | \$0 | \$0 |

Return to Hub
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Next >

ADEPT+WISE Big-Picture Architecture



ADEPT Messaging



Stottler Henke Overview

History Founded 1988 by Dick Stottler, Andrea Henke

Locations San Mateo, CA Seattle, WA
Boston, MA Atlanta, GA

Mission Solve problems that defy solution using traditional approaches

Core competency Artificial Intelligence

Businesses Contract R&D, software products and services

Solution areas Planning & scheduling
Decision support
Knowledge management & discovery
Education & training
Software development (intelligent systems)

Personnel 50 people
~40 technical staff: ~50% MS, 25% PhD