Research

Discussion Group

Distributed Agile
People

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Activities

- Identify Research Topics
- List Some Examples
- Discuss a Topic
Forming an Agile-Distributed Cross Product of Research Topics

Distributed

ISSUES

Agile

NEEDS

X
Agile-Distributed Research Cross Product

- Distributed Issues
  - Geography/Space
  - Time Zones
  - Permanence (over time)
  - Skills
  - Culture (group values)
  - Social (Among Individuals)
  - Tasks over people
  - Tasks over tools

- Agile Practices
  - Pair Programming
  - Frequent Builds
  - Refactoring
  - Customer Available
  - Minimalist Documentation
  - Daily Meetings
  - Test First
  - ...
Issue Modifiers

- **Breakage**
  - Example: A project, currently in a single location, is to be divided among three continents

- **Change**
  - Example: A shift in 1 time zone changes to a shift of 8 times zones
Examples of Cross Products
Topics Generated

- Time Zones
- Geographic Distribution
- Permanence
- Cultural Values

Pair Programming

Minimalist Documentation
What needs to be communicated

- Status
- Design
- Negotiation
- Education
- Changes
- Emotions
- Directives
- Plans
- Project Artifacts
- Work Products
Focus Topic: Geographic Distribution

- **Agile Areas**
  - Pair Programming
  - Daily Meeting

- **Existing Solution**
  - Telephone Conference
  - Net Meeting

- **Issues**
  - Speech is Sequential
  - Viewing Area
  - Gaze awareness
  - Emotions
  - Body Language
  - Spatial Relations
  - Couplings of participants on their specific issues (for sidebars)

- **Visual Solutions**
  - Virtual Chart
  - Large Screen
An encapsulation of the research issues ...

- What are the communication needs across all agile practices; what are the factors that affect these needs; what types of things are being communicated; what type of communication tool/method can be put in place; what are the gaps between the needs and what will be the satisfaction of these needs?