Lero: A National Research Centre

- Founded in 2005 as an SFI CSET, evolved into an SFI Research Centre in 2015. Awarded over €100M in research funding from multiple sources
- 60+ researchers and over 100 PhD students
- Output to date: 400+ journal papers, 30 books and 800+ conference papers; 37 patents & contributions to 5 published international standards
- Worked with over 100 companies in Ireland and the EU on collaborative research projects
Areas of Expertise in Lero @ NUI Galway

Industry Partners @ NUI Galway

EMC
Lumension
HP
IBM
CloudStrong
Dell
SourceDogg
Ericsson
Intel
Almir
Avaya
Atlassian
QAD
Ulster Bank

Galway University Hospitals

positive results for life
Types of Industry Collaboration

• In-depth analysis within co
• Benchmarking against leading international practice
• Network of partner companies to share, compare and collaborate
• Regular invited experts who spend dedicated time with companies e.g. Don Reinhertsen
Evidence-based practices

- **Adherence-based versus value-based**
  - “We use all the practices so we are great”
  - Binary view—either it is done or not
- **Evidence-based approach needed**
  - Many methods and practices fall short
  - Subjectivity, relevance and ‘gaming’ of metrics
  - The non-repeatable ‘river’

Suggested Solution

- Value-based assessment
- e.g. agility is not Scrum or XP adherence
- Agile = practices that enable…..
  - Creation of change
  - Proaction in advance of change
  - Reaction to change
  - Learning from change
### Time in Academic/Industry Collaboration

<table>
<thead>
<tr>
<th>Category</th>
<th>Subcategory</th>
<th>Sample Variables</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conceptions of</td>
<td>Types of time</td>
<td>Linear time, uniform time, cyclical time, subjective time, event time</td>
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<tr>
<td>time</td>
<td>Socially constructed time</td>
<td>Work organization [nine-to-five workdays, work time and family time], celebrations [Passover and/or Easter], time as a renewing cycle, time as linear continuity</td>
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<tr>
<td>Mapping</td>
<td>Single activity mapping (a)</td>
<td>Scheduling, rate of completion, duration</td>
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<tr>
<td>activities to time</td>
<td>Repeated activity mapping (aa)</td>
<td>Cycle, rhythm, frequency, interval</td>
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<td></td>
<td>Single activity transformation</td>
<td>Life cycles, midpoint transitions, jolts, interrupts, deadline behaviour</td>
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<tr>
<td></td>
<td>mapping (aa')</td>
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<tr>
<td></td>
<td>Multiple activity mapping (ab)</td>
<td>Relocation of activities, allocation of time, ordering, synchronization</td>
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<td></td>
<td>Comparison and meshing of</td>
<td>Entrainment, patterning, temporal symmetry</td>
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<tr>
<td></td>
<td>activity maps (ab) versus (aa)</td>
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<tr>
<td>Actors relating to</td>
<td>Temporal perception</td>
<td>Experience of time, time pacing, time dragging, experience of duration, experience of novelty</td>
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<tr>
<td>time</td>
<td>Temporal personality</td>
<td>Temporal orientation, temporal style</td>
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