Evolve Or Die:
Integrating Agile with Waterfall
Today’s World

- FASTER ECONOMY
- MORE COMPETITION
- GLOBAL ECONOMY
- MORE CHANGES DURING PROJECTS
- HIGHER CUSTOMER EXPECTATIONS
Companies With A Strong Adaptive Culture (Agile)

Revenue grew

Rate of job creation was

Stock prices grew

Profit performance was

- Kotter and Heskett, Corporate Change and Performance
Henry Ford Assembly Line
Manufacturing
Medical Devices
Environmental Devices

Watt Detector
Choosing A Project Process

Moving To

ANALYSIS / REQUIREMENTS
DESIGN
IMPLEMENTATION
TESTING / VERIFICATION
ROLLOUT / MAINTENANCE
Agile Practices That Are Most Effective (Top 10 out of 30)

- Bumdown Tracking
- Potentially Shippable Software
- Active Stakeholder Participation
- Pair Programming
- Retrospectives
- Code Retactoring
- Iteration Planning
- Developer TDD
- Daily Stand Up Meeting
- Continuous Integration
First Agile Practices to Introduce

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One Backlog – One Team

Customer or Product Owner
One Backlog – Mixed Team

Customer or Product Owner
One Backlog – Many Teams

Customer or Product Owner
Distributed Teams
Divided, Distributed Teams
# Iteration in MS Project

<table>
<thead>
<tr>
<th>Task ID</th>
<th>Task Name</th>
<th>Duration</th>
<th>Start</th>
</tr>
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<tbody>
<tr>
<td>3366</td>
<td>Online Bank for Small Customers</td>
<td>10 days</td>
<td>Fri 4/29/11</td>
</tr>
<tr>
<td>3367</td>
<td>Customer can access past statements</td>
<td>0 days</td>
<td>Fri 4/29/11</td>
</tr>
<tr>
<td>3368</td>
<td>Customer can stop payment on check</td>
<td>0 days</td>
<td>Fri 4/29/11</td>
</tr>
<tr>
<td>3369</td>
<td>Customer can find a branch location</td>
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<tr>
<td>3370</td>
<td>Customer can find a branch with foreign language services</td>
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<td>3371</td>
<td>Customer can find a branch near a specific address</td>
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<tr>
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<td>Customer can find a branch with small business services</td>
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</tr>
<tr>
<td>3373</td>
<td>Customer can find a branch with safe deposit boxes</td>
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<tr>
<td>3374</td>
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EVOLVE!