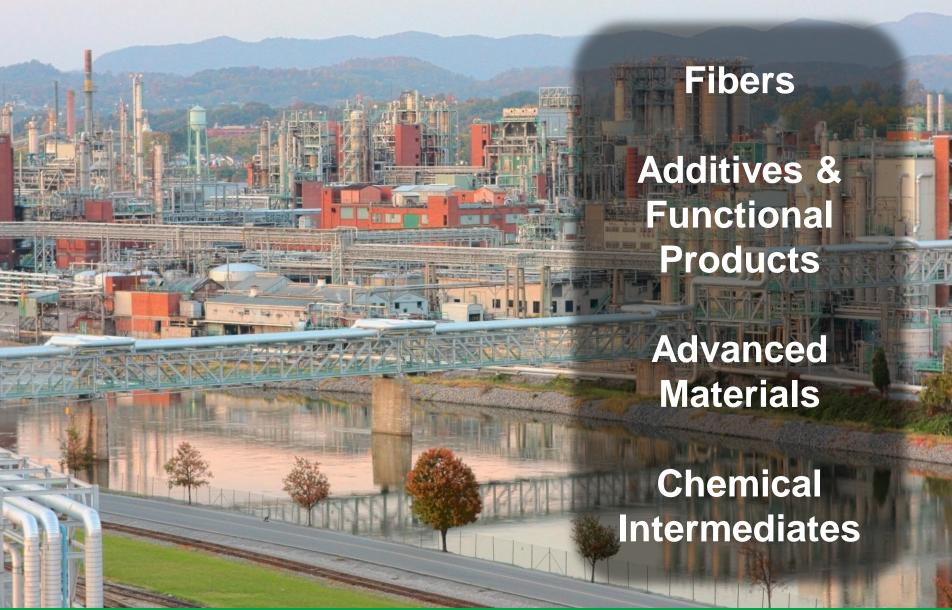


# Agile 101 for the Lean Practitioner

Jake Mitchell
Supervisor, IT Project Management Office
Eastman Chemical Company

#### EASTMAN









#### What do I want you to know?

- 1. Agile has history
- 2. Agile is Lean
- 3. Agile has many approaches
- 4. Agility should matter to you









#### What is Agile?

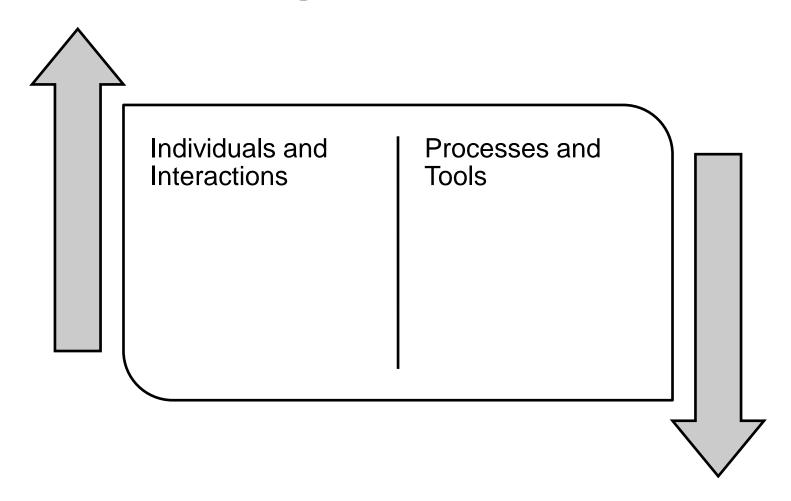
An iterative and incremental approach to software development that uses a specific set of values and principles expressed in the Agile Manifesto

We are uncovering better ways of developing software by doing it and helping others do it.

Through this work we have come to value...

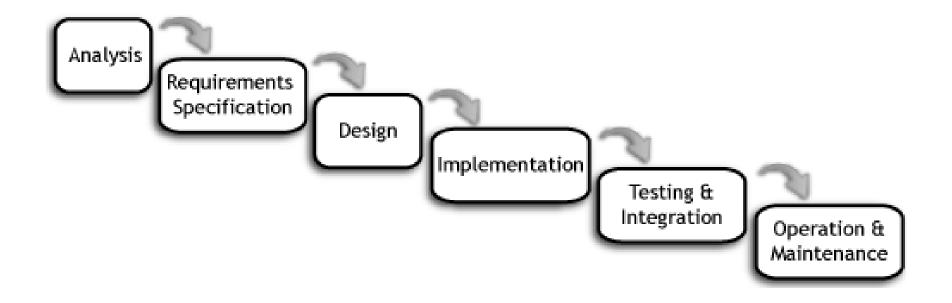


#### The Agile Manifesto





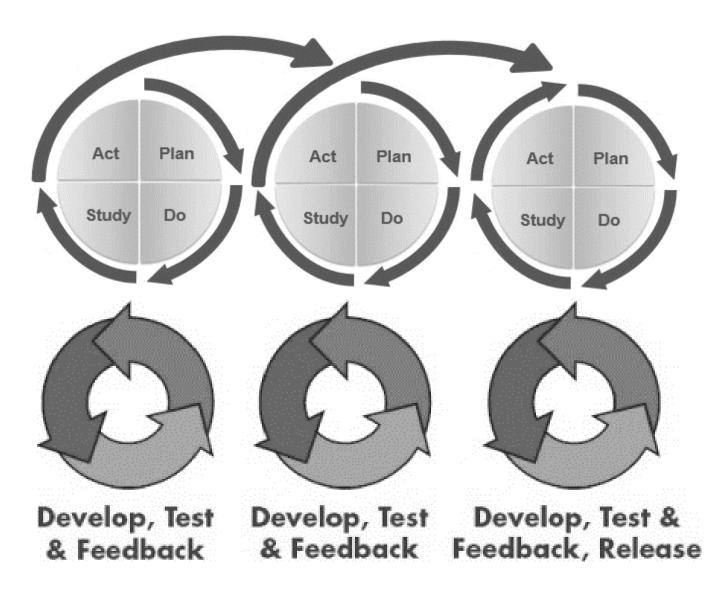
#### Waterfall Project Management





#### Lean

Agile





#### Why does Eastman IT need Agile?

- Projects take too long
- Understanding need vs. request is difficult
- Lack of deep alignment with internal partners
- Unable to easily make changes
- Onboarding employees takes too long
- Measures focused on schedule and budget
- Too many things "In Process"...
- ...and not enough things getting "Complete"





#### **Agile Approaches**

Scrum

Extreme Programming (XP)

Kanban

Dynamic Systems
Development
Method
(DSDM)

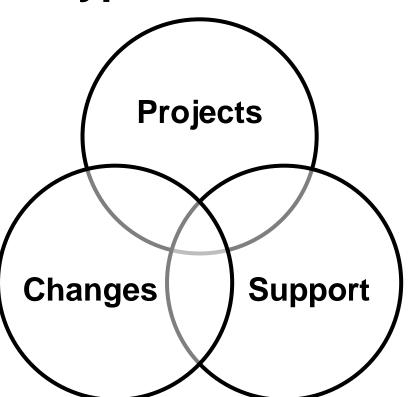
Feature Driven Development

DevOps

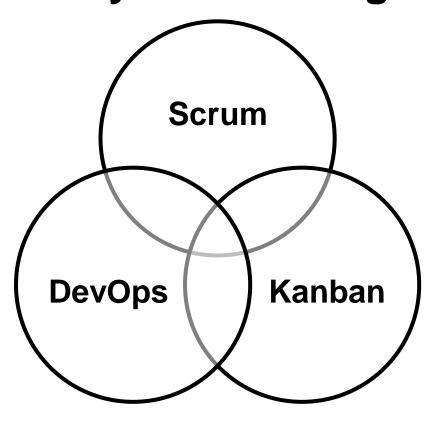


#### Eastman IT's Agile Approach

**Types of Work** 



**Ways of Working** 





#### **Choose Your Own Adventure!**





















# Agile Ceremonies



#### **Agile Ceremonies**

- Visioning / User Story Mapping
- Sprint / Iteration Planning
- Daily Scrum / Standup
- Demo and Review
- Retrospective
- Scrum of Scrums



#### **Ceremonies: Daily Standup**

- Communicate progress
- Commit to work
- Share impediments

- What did you plan to accomplish yesterday?
- 2. What was the result of your work yesterday?
- 3. If you did not meet your plan, what caused the deviation?
- 4. What do you plan to get done today?
- 5. Are there any distractions or impediments that need to be addressed?
- 6. Product Owner Comments



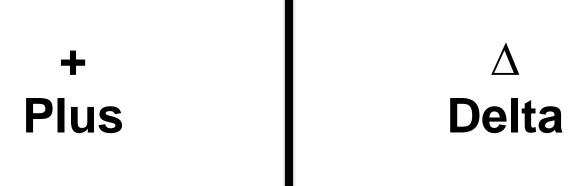






#### **Ceremonies: Retrospective**

- Scrum format for continuous improvement
- Frequent occurrence
  - Live data collection
  - Review and renew each sprint / iteration

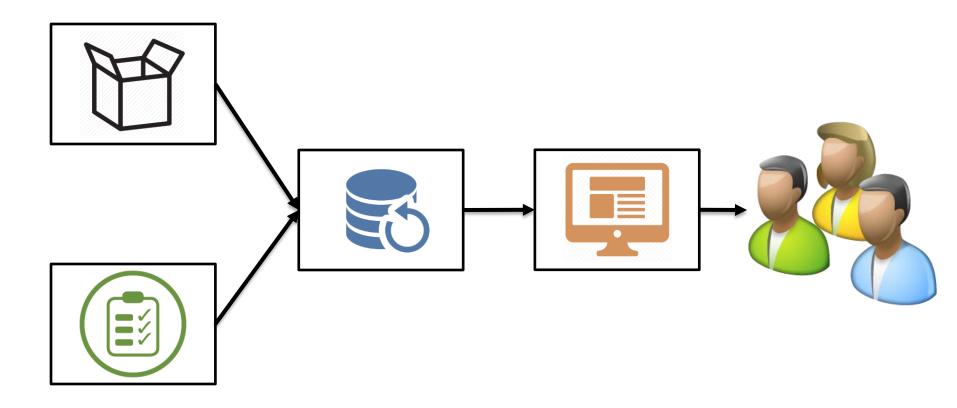




# **Agile Simulation**



#### **Agile Simulation**





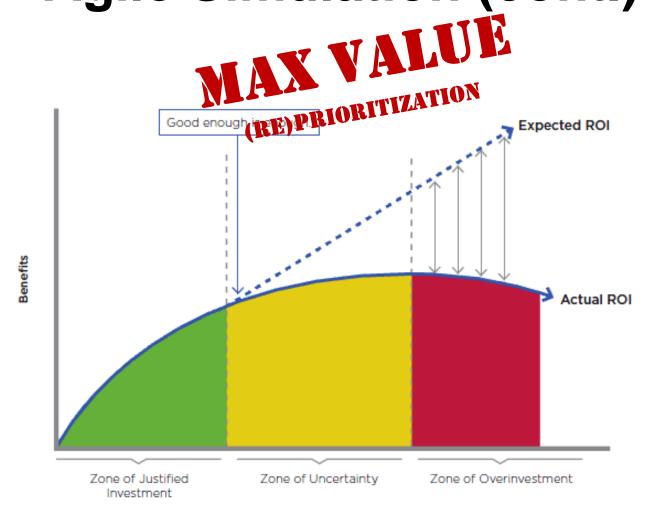
#### Agile Simulation (cont.)



Time (Weeks or Days)



#### Agile Simulation (cont.)

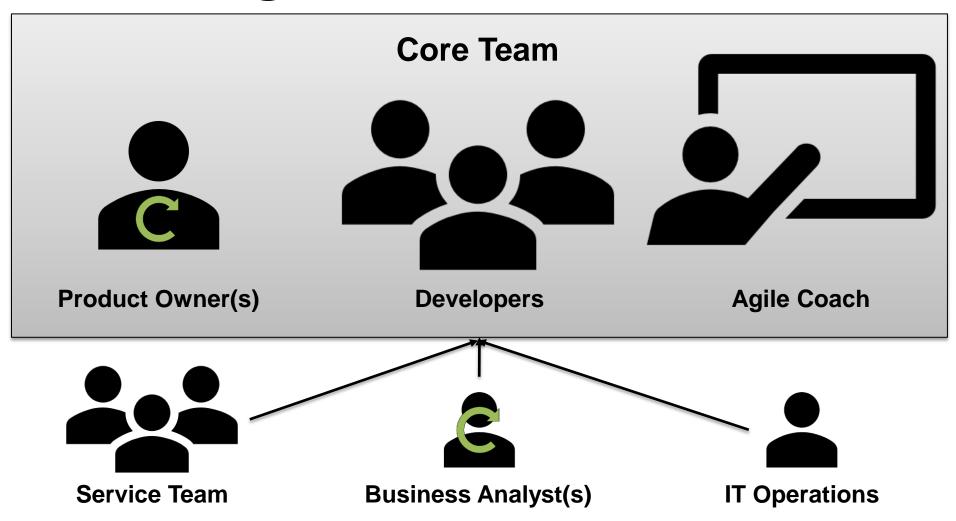




# **Agile Team Members**



#### **Agile Team Members**





# Eastman IT Agile Results



#### **Eastman IT Agile Results**

Projects take too long

- Agile 45% faster
- Understanding need vs. request is difficult
- 8/12 Agile teams aligned to value stream Lack or deep angriment with internal partners
- Unable to easily m Partner-owned backlogs
- Onboardir Agile now preferred for onboarding
- Me Now focused on velocity and commitment
- <u>Too many things "In Process"</u>
  - We still suck at this, but we're working on it.
- not enough things getting compiete



#### Eastman IT Agile Results: PPM

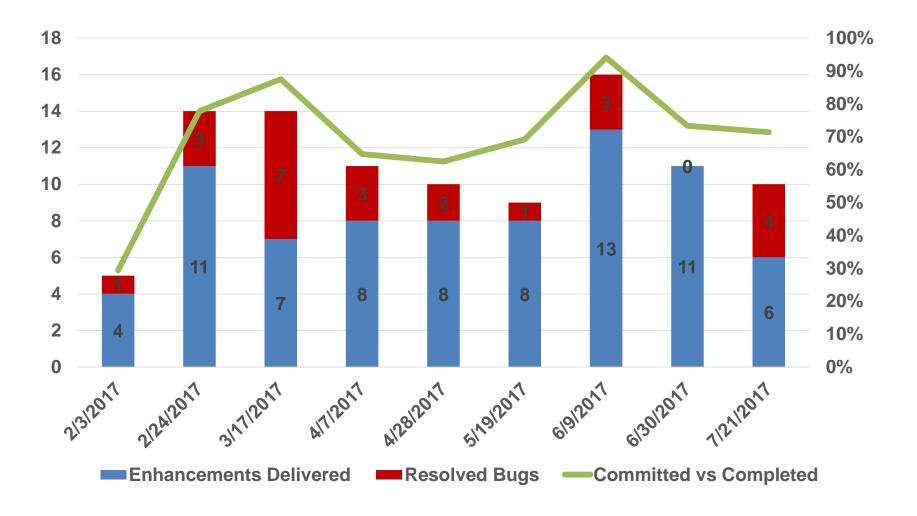
2016

3-5

Enhancements/Bugs Completed Per Iteration



#### Eastman IT Agile Results: PPM





#### **Client Feedback**

"Traditionally, this project would have taken over six months. You guys did it in nine weeks and gave us exactly what we needed."

Supply Chain project Product Owner



### **Code Jams**





# code jam WHAT LANGUAGE DO YOU SPEAK?

fill-direc-; string a () = 12) fin > c; private static Lists!

eAt (0; ) BufferedWriter out = new BufferedWriter new FileWrit
entfOut[): else else: var j = 0; end print("Calculation...") using System.Rundime.Serial
[sation; int() resArray = new int(strings.length); s\_dwar += 1 for Kase, angs in myCases: cher c = s.cherA
[iii]: for (c=1;t=-k] icher prev =if (dourmpoimporre=2.0 let rec output\_result out case = while (K.Length < n) K = 0 = K; protected

 1 var ceiMax, rews. tarty r 1=0 val stringfor

(make-grid tringim, e, true, "in 70 rfTaken[]]=True string inwhile (vector-int)- a(N);

("aut2","); int

FORTHFORL 1, vi2 = fapen



#### **Code Jams**

- One week or less events where teams:
- Collaborate across orgs → Networking
- Focus on a single problem → Speed
- Use non-prescriptive tech → Innovation
- Manage work with Agile → Flexibility

...a software development Kaizen Event...

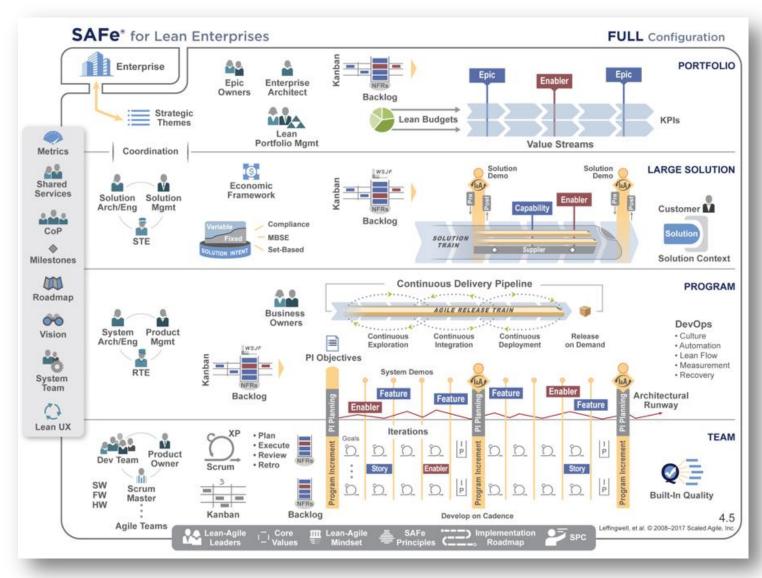






# Scaled Agile Framework (SAFe)







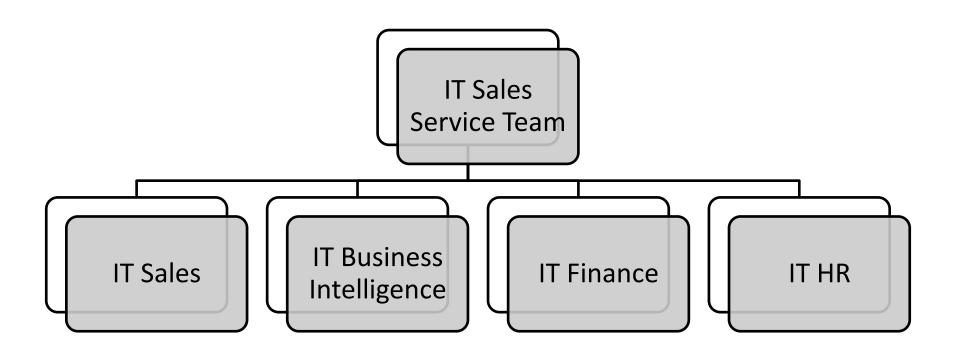
#### Scaled Agile Framework (SAFe)

- Pioneered by Dean Leffingwell
- Significantly influenced by Lean
- Primary takeaways:
  - Align work/Agile teams with value stream
  - Plan the whole value stream
  - Schedule backwards from capacity
  - Continuously (re)prioritize
  - Limit WIP





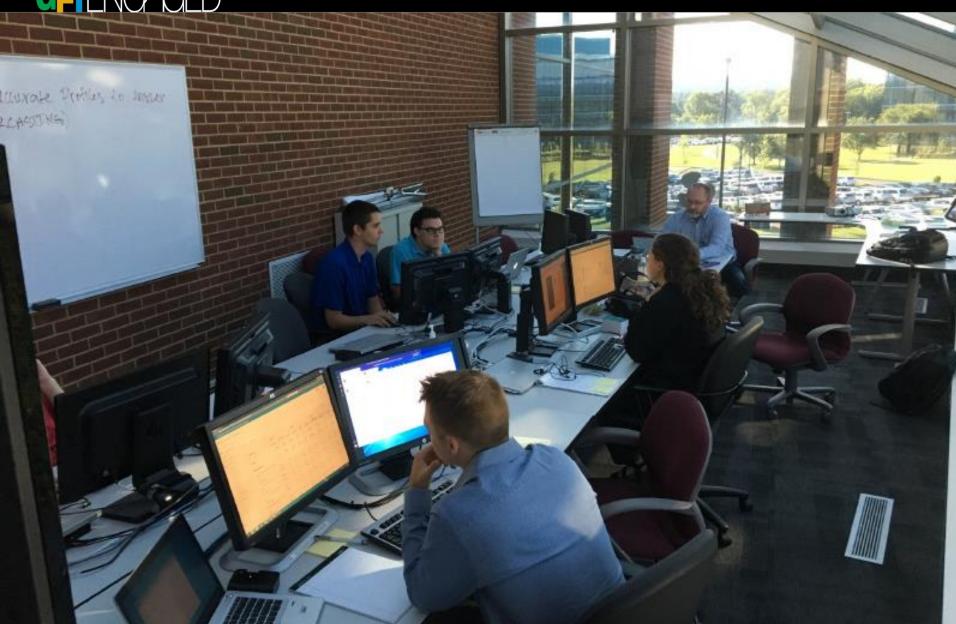
#### SAFe in Eastman IT (Example)





# Collocation









### Collocation

- The ideal, not the standard or norm
- Significantly increases cross functional engagement
- Significantly reduces waiting and rework



- Team >>> Gemba
- Considerations:
  - Collaborative workspace
  - Global employee base
  - Collaboration tech (low or high)
  - Personality types





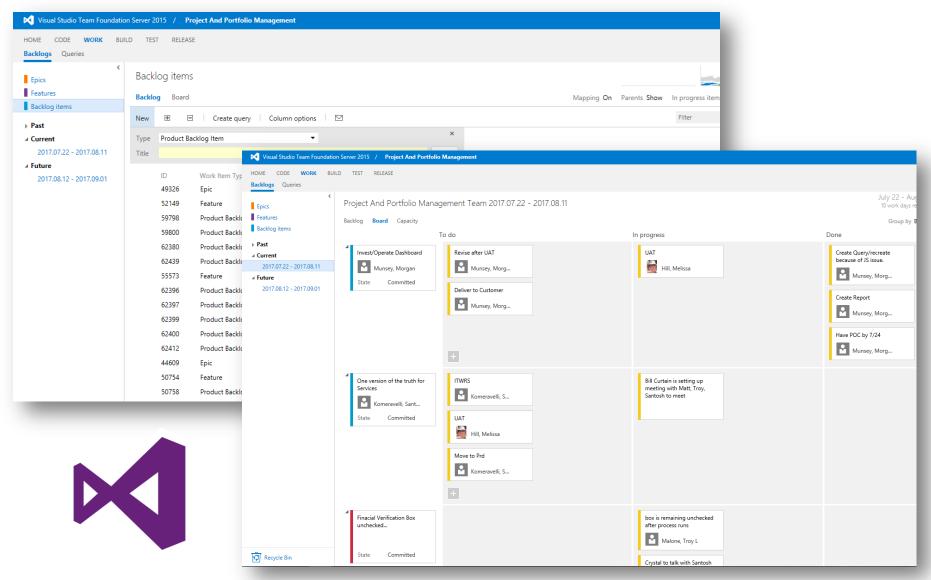
## **Task Boards**

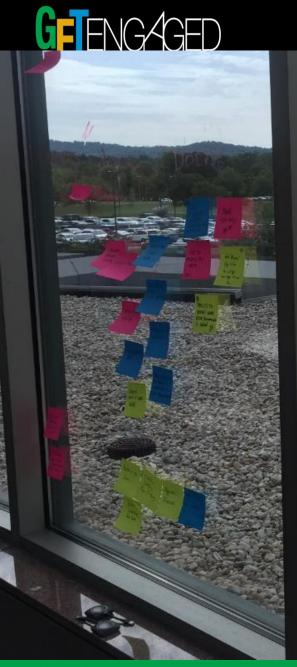


#### **Task Boards**

- Manual or electronic
- To Do, In Process, Waiting, Done
- Why task boards?
  - Visual
  - Interactive
  - Engaging
  - Ownership
  - Accomplishment











# Conclusion



### What are Eastman's next steps?

- Expose and visualize <u>all</u> work
- Limit WIP by planning backwards from capacity
- Continue alignment of delivery teams and Agile teams with value streams
- Plan work at value stream level (SAFe)



## Why should agility matter to you?

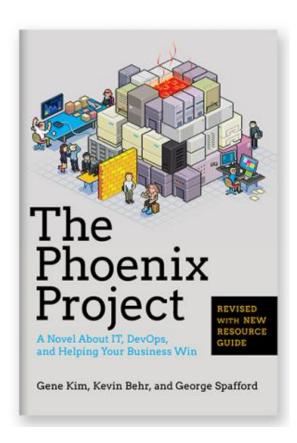
- 1. Speed wins
- 2. Perfection equals second place
- 3. Who's perfection is it anyway?
- 4. Energizes employees
- 5. Energizes customers

https://www.americanexpress.com/us/small-business/openforum/articles/5-reasons-why-being-agile-is-more-important-than-being-perfect/

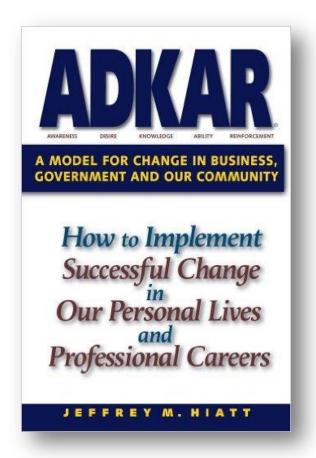




#### What has influenced Eastman IT?









#### Thank You!

Your opinion is important to us!

Please take a moment to complete the survey using the conference mobile app.

Session No: TS/04
Agile 101 for the Lean Practitioner
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