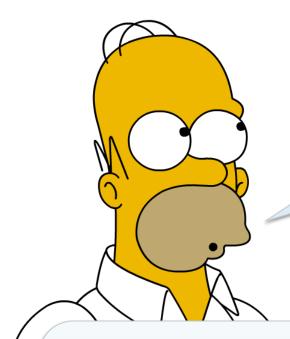


Creating winning teams.



www.ivarjacobson.com

You all know what agility is



Agile = Scrum

Agile = Scrum + User Stories + TDD





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:

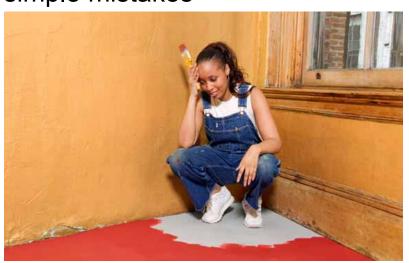
Individuals and interactions over processes and tools
Working software over comprehensive documentation
Customer collaboration over contract negotiation
Responding to change over following a plan

That is, while there is value in the items on the right, we value the items on the left more.



We know...

Teams and organizations make too many unnecessary but simple mistakes



There is no one-size-fits-all to software development

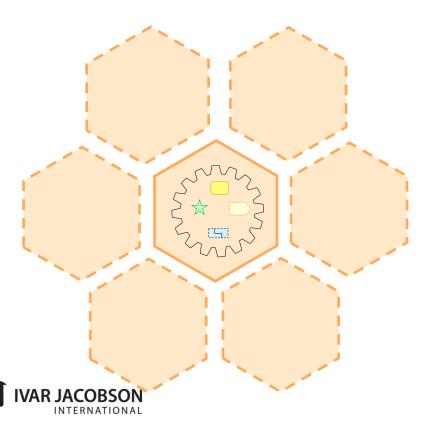


We need a foundation for software development



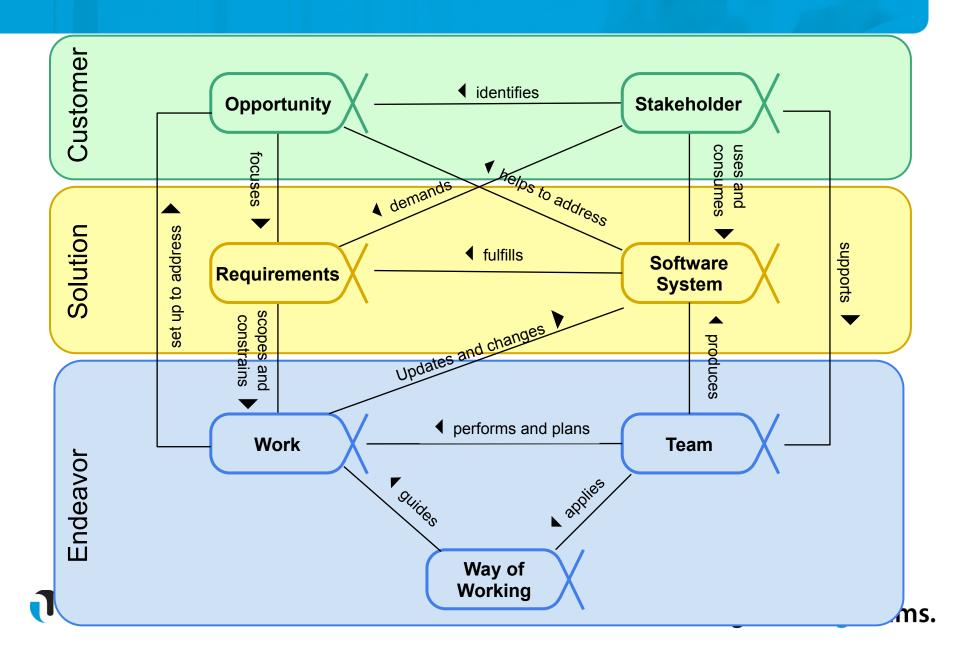
SEMAT started to find a Common Ground – a Kernel

- At the heart of the SEMAT approach is the Kernel called Essence a simple state-driven model of software development
- It captures the small set of things that are universal to all software development endeavors; including the things that a team always has to consider or work with when developing software.

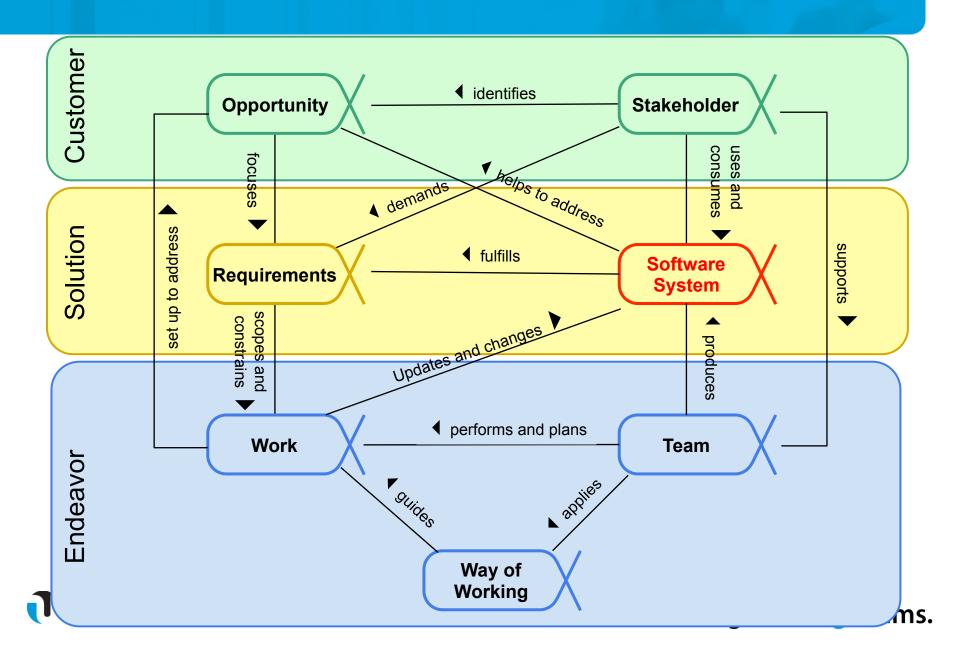


- By adding Practices on top of the Kernel you create your specific Way of Working.
- Practices such as Scrum, User Stories, Test-Driven Development, etc.
- But that is not the subject of today. ☺

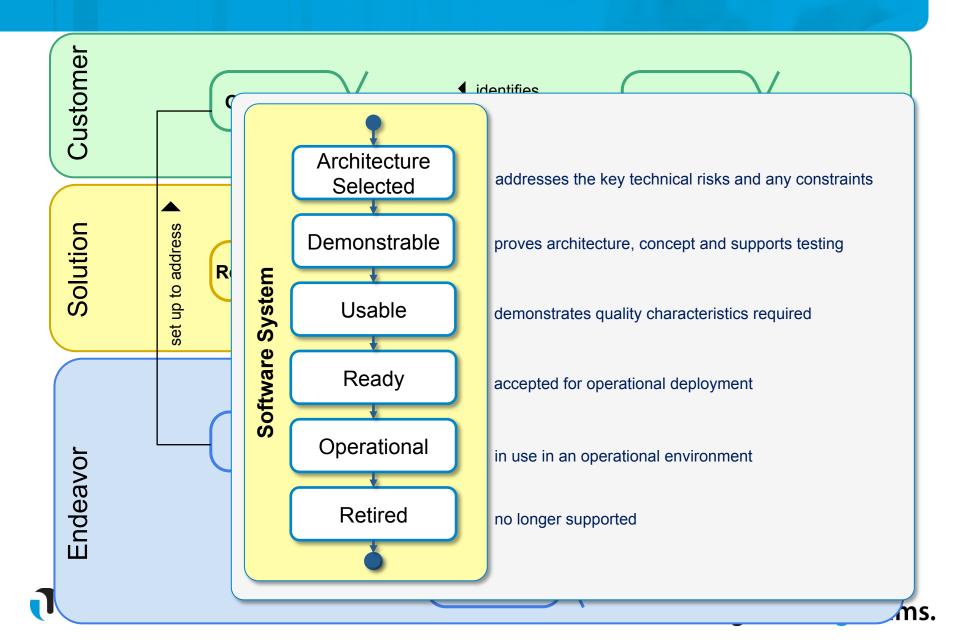
The Essence Kernel



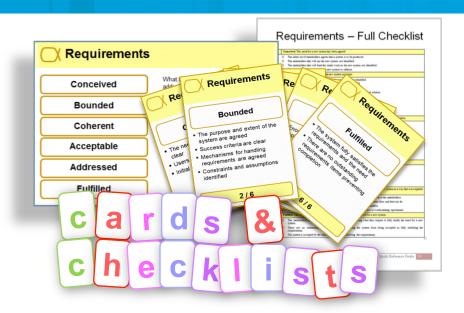
Essence – the Kernel

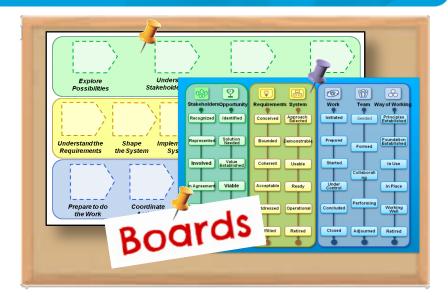


The alphas have states and checklists



SEMAT and Essence made tangible











Play the Games



You can play many games

Progress Poker	Lifecycle Layout
Chase the State	Milestone Mapping
Objective Go	Health Monitoring
Checkpoint Construction	And more



http://www.ivarjacobson.com/alphastatecards/

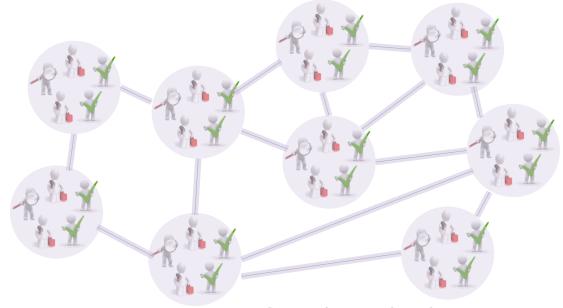


Applying the Essence



Helping Agile Teams

And Agile Organizations



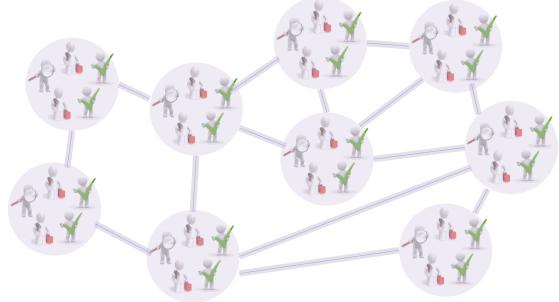


Applying the Essence



Helping Agile Teams

And Agile Organizations





Learning Agile Software Development



Reprinted by permission of the KTH Royal Institute of Technology, Mira Kajko-Mattson



Learning (agile) software development

- What to learn?
- How to demonstrate that students have actually learnt?

In Action:

 KTH Royal Institute of Technology

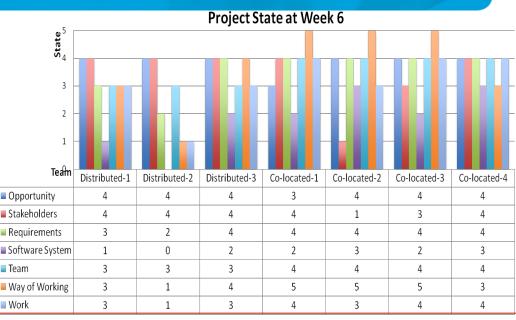
Benefits:

- Cards define check points for student project work
- Lightweight combination of theory and practice

Taking a holistic approach and exploiting the common ground



Carnegie Mellon



Reprinted by permission of Cecile Peraire, CMU West

All 7 CMU-SV practicum teams used different sets of s/w engineering practices

Progress & Health

 Measure progress & health of your teams regardless of practices selected.

Avoiding Problems

 Detect systemic problems early & take appropriate action



Getting Started



Understanding where you are

- What's already been achieved?
- What are the risks?

In Action:

 An internal coach in a large telecom.
 Product company.

Benefits:

 Detected risks in working with stakeholders.



Tracking Progress and Health

SEMAT Accelerator

Usable

The system can be operated by stakeholders who use it.

The functionality provided by the system has been tested.

The performance of the system is acceptable to the stakeholders.

☑ Defect levels are acceptable to the stakeholders.

The system is fully documented.

☑ Release content is known.

The added value provided by the system is clear.



Kernel for Semat

Opportunity: Value Established

Stakeholders: In Agreement

Requirements: Bounded

Software System : Usable

Architecture Selected

Demonstrable



Usable

Ready

Operational

Retired

Work: Under Control

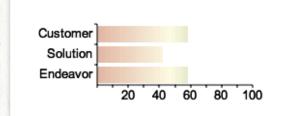
Team: Formed

Way-of-Working: In Place

http://sematacc.meteor.com/demo

Status







Pekka Abrahamsson

More Tracking Progress and Health



Tracking progress

 How to communicate current state and to set sprint objectives

Action:

 Internet media development project with 6 teams

Benefits:

- Cards help to slice the requirements to set sprint goals
- Cards define criteria for progressing through a Kanban



Inspecting and Adapting

Inspecting & Adapting

- Where are the bottlenecks?
- How to improve?

In Action

 Consumer electronics (e-book) development

Benefits

- Cards help identify bottlenecks and describe new way of working
- 2. Members can start practicing new way of working immediately





Scaling Up

Scaling Up

 How to help large development team collaborate

In Action:

 Large development involving offshore members (50+200) developers

Benefits:

- Cards facilitate describing new way of working
- Cards help new (feature) team leaders guide members

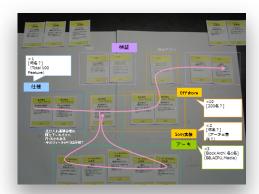


30+100 Even More Feature Team

20+50 More/Feature Team

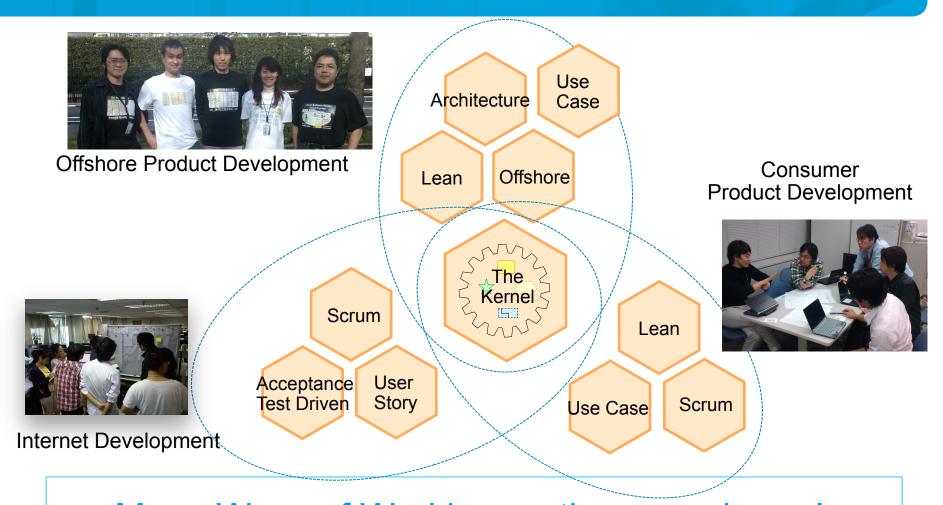
10+20 OffShore Induction Learn, Demo

Core Patterns & Practices





The Kernel provides a shared frame of reference



Many Ways of Working on the same kernel.



SEMAT for Agile Teams - Summary

- Understand where you area and where you are going
 - Understand what needs to be addressed
 - Holistically track progress and health
 - Keep projects in balance and avoid catastrophic failures
 - Form good sprint goals and other objectives
 - Bring people together
- Learn and share your way of development
 - Share and compare practices
 - Build effective ways of working
 - Define practice independent checkpoints, and lifecycles

The Value of Essence

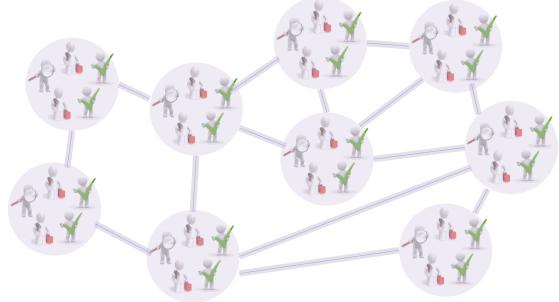


Applying the Essence



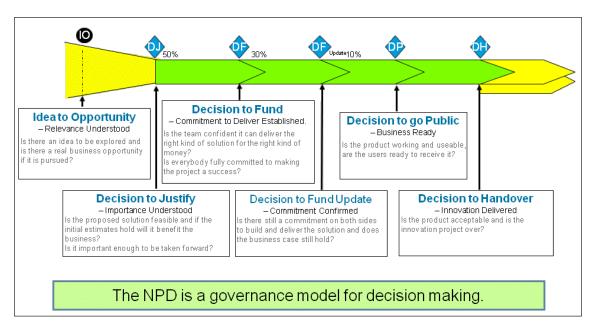
Helping Agile Teams

And Agile Organizations





KPN New Product Development Agile in a controlled environment



NPD Rocket

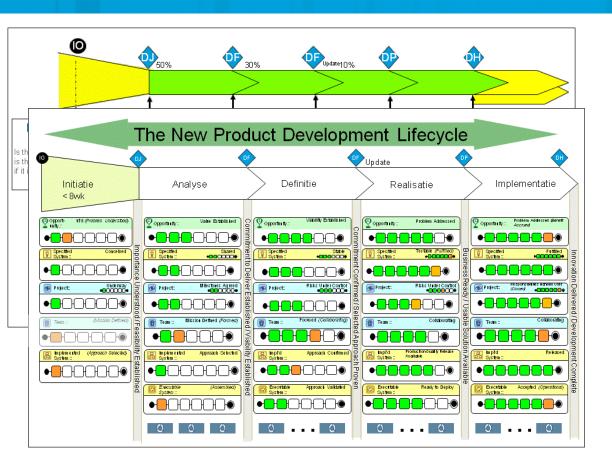
 From signed off documents to recognized achievements

QA & Compliance

- From bill of materials to results
- From collecting specifications to filling in checklists



KPN New Product Development Agile in a controlled environment



NPD Rocket

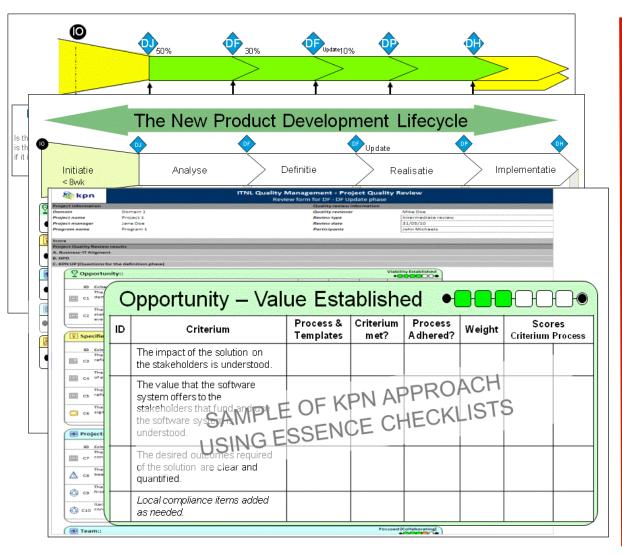
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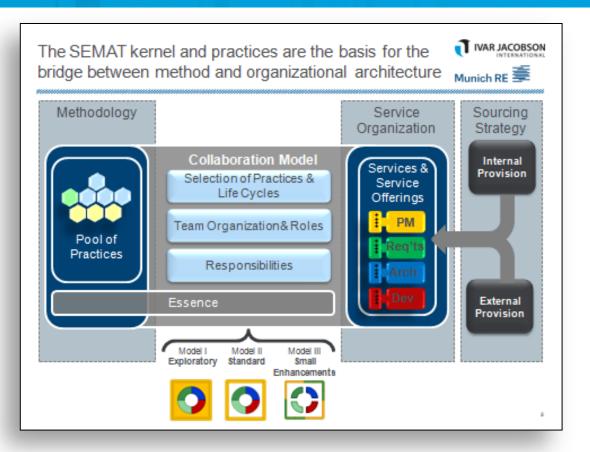
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MunichRe: A common model and an individual way-of-working



The challenge

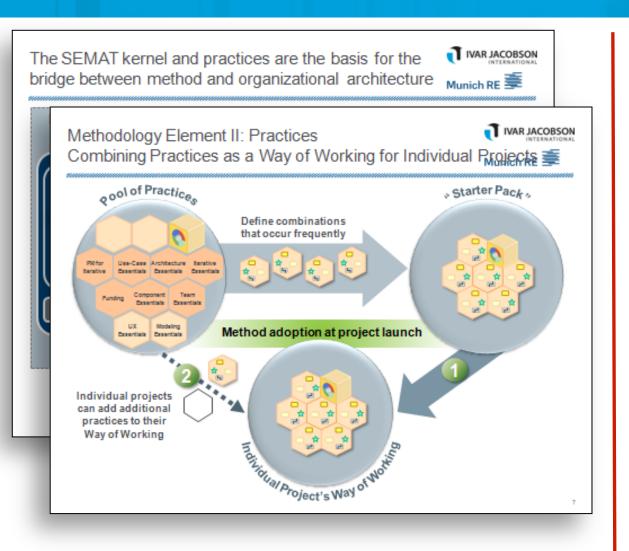
- Globally distributed Application Dev't
- High-levels of outsourcing & off-shoring
- Service organization

The solution

- Agile starter packs
- Practice Exchange
- Governance as a first class citizen



MunichRe: A common procedural model and an individual way-of-working



The challenge

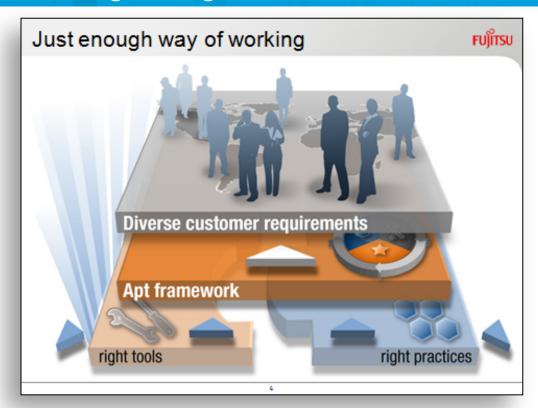
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Fujitsu: Building an Agile ALM



Enabling Fujitsu's industrialised delivery of application services

- Encourages a lean approach to application services.
- Empowers teams with tools and practices

Benefits include:

- Real-time visibility of status and progress
- Integration of methods and tools saves time and cost whilst giving higher quality and productivity



Fujitsu: Building an Agile ALM





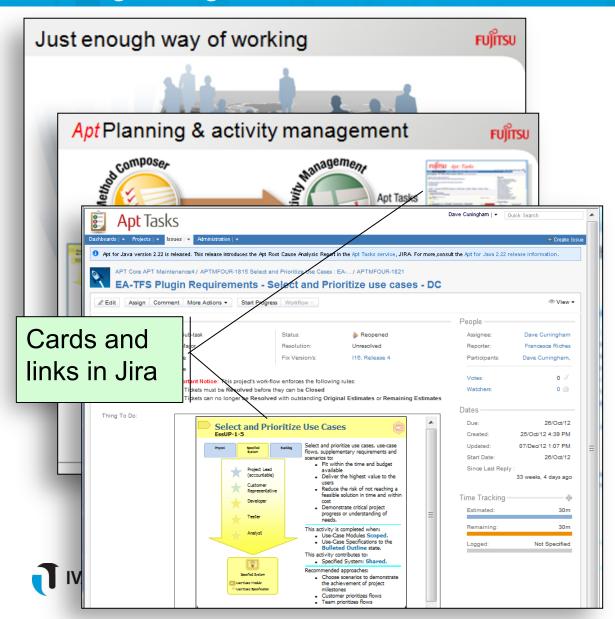
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SEMAT for Agile Organizations - Summary

- Define practice independent governance procedures and quality gates.
- More readily and easily form teams and mobilize teams of teams.
- Scale agile approaches across teams of teams and systems of systems.
- Select enterprise level tooling.



Conclusion: SEMAT and Agile are Perfect Partners

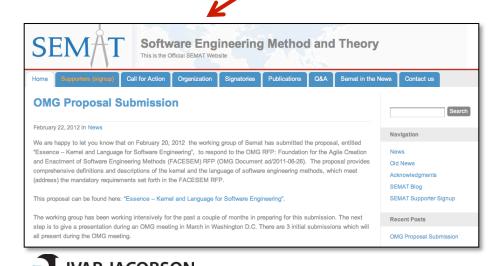


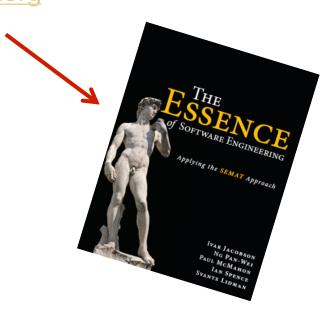
Get the cards and play the games



http://www.ivarjacobson.com/alphastatecards/

- Join the community and get involved
- Become a supporter.
 Go to <u>www.semat.org</u>
- Or read the book





Creating winning teams.

Thank You for Your Time!

www.ivarjacobson.com

