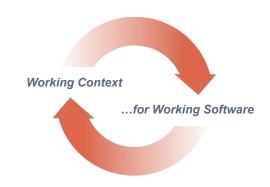
# SMARTer Agile

practical agility in wicked complexity



### How Wicked?



In general terms, high (and rising) levels of:

- Complexity (business/technical unknowns)
- Diversity (experience/perspective)
- Conflict, real or potential (passion/importance)
- Urgency (should have been solved yesterday)

In more specific, technical, project terms:

- New projects with large (10s to 100s), diverse, weakly-connected stakeholder groups
- Existing projects struggling with persistent defects
- Complex change integretion challenges
- Mounting technical debt
- Multi-team, multi-funder, and/or multi-user

What's your own version of wicked complexity?
In those situations, how big is your stakeholder universe?

# Why SMARTer?



- Strategic, scalable, software solutions from...
- Marketplaces for multi-team, multi-stakeholder collaboration to...
- Adapt and Accelerate any agile engineering approaches with...
- Robust, business results-based product requirements rapidly...
- Translated from business vision to technical terms and development teams.

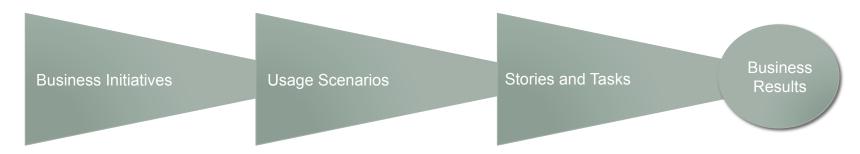
In short: Solutions Marketplaces Accelerate Requirements Translation.

These words are all good and true. I just wish they spelled something that isn't already widely used for something else. The lowercase "e" is fun. (Don't scale without one of those!) What would you call this approach?

### Foundational Research



- Software project failures: (nearly) always and everywhere traceable to inadequate requirements elicitation and articulation process.
- Dr. Sandra Walsh: "What would an evolutionary framework for facilitating agile requirements elicitation look like?"
- Six Years to Answer: Inspected existing methods, devised new approach, tested in team studies, recently published book. http://bookstore.xlibris.com/Products/ SKU-001014561/The-OpenXP-Solution.aspx
- OpenXP: marries robust analysis in Open Space, a usage scenarios approach to "journeys" or "epics," Scrum project management, and XP engineering practices.
   Defers to root texts for details on each method.



# Walsh's OpenXP Approach



Step	Purpose	Output
Phase One: OST-based A	nalysis	
OST 1: Create theme	Provide the centre focus, the objective for the meeting	One sentence meeting agends posed in the form of a question
OST 2: Voice concerns	Elicit requirements as concerns directly relating to theme	High level requirements raised as concerns surrounding the theme
OST 3: Explore concerns	Describe, elaborate and explore requirements collaboratively and identify appropriate improvements	High level requirements more comprehensively examined and a set of potential improvements identified
OST 4: Prioritize improvements	Organise business improvements based upon priorities	Prioritized set of high level business improvements
Phase Two: Linking Acti	vity	
Link 5: Develop scenarios	Establish more refined detail for the highest priority improvement	Potential usage scenarios (Flexible format – can use multiple modes of expression)
Phase Three: XP-based S	Software Development	
XP 6: Create user stories	Create more detailed requirements from personalised scenarios	Lower level requirements
XP 7: Prioritize user stories	Organise the order in which stories will be completed	Prioritized set of user stories
XP 8: Plan iteration	Organise prioritized stories	Planned iterations of stories to be implemented
	into iterations	or improments

Goal: Better, faster, cheaper results via better, faster, cheaper elicitation and communication of business requirements to technical teams.

Innovation: Dr. Sandra Walsh used Open Space Technology to rapidly develop a multilayer understanding and fully-engaged stakeholder universe, as the foundation for software development.

Connection: Walsh's teams developed usage scenarios to further refine and translate business context for XP-based development team(s).

Adaptation: the SMARTer Agile approach recognizes Walsh's linking work as a "fancy" form of action planning, appends that as the final output step in the Open Space context work, and generalizes the whole approach to support any Agile engineering practices.

# The "SMARTer Agile" Approach



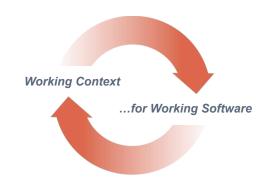
#### **Working Context via Business Analysis Marketplace (Open Space)**

- Planning Conversations => Stakeholder Summit/Series Invitation (incl. invite list, place/time and communication infrastructure (collaboration places/platforms)
- 2. Summit Opening => Business Issues and Opportunities Identified, with Champions
- Working Conversations => Documentation of Business Requirements
- 4. Sorting/Prioritizing Process => Business Backlog of Ready and Researchable Issues
- 5. Usage Scenario Sessions => User Journeys detailed for top priority issues

#### Working Software via Agile Development (Scrum, XP, Kanban, etc.)

- Create user stories, sizing based on complexity
- 2. Prioritize user stories and confirm top stories' readiness for development
- 3. Select user stories for each iteration, creating tasks/estimates
- 4. Complete tasks to deliver stories commitment for iteration
- 5. Review completed stories with stakeholders (at the end of each iteration)
- 6. Inspect and adapt development process with team (inline or at end of each iteration)

### **Practical Outcomes**



- Better Communication open, engaging, purposeful
- Better Requirements grounded in business improvements
- Better Understanding multi-perspective, multi-layer context
- Better Investments earlier go/no-go decisions, better estimates
- Better Connections more stakeholders, better qualified
- Better Scaling efficient, organic, multi-team, multi-function, w/testing
- Better Recovery process reset vs. redesign
- Better Enterprise Agility business and tech working together

# Open Space Case Stories



A few examples of business requirements written in Open Space meetings, by large groups and/or high-level participants, for multi-team/multi-stakeholder systems...

- AT&T, Atlanta Olympic Games, two dozen skeptical experts created a new plan for the company's pavilion building, completing 10 months of work in TWO DAYS.
- <u>Structural Dynamics Research Corp (SDRC)</u>, annual Customer Council for Strategic Direction, brought together representatives from 13 largest customers to co-design the next year of releases of automated design software.
- <u>City of Peoria</u>, the <u>Future of Peoria</u>'s <u>Neighborhoods</u>, engaged hundreds of citizens in crafting requirements and setting priorities for the city's ongoing maintenance and development work, a backlog the city worked for 10+ years.
- <u>Peoria School District</u>, the Future of Education in Peoria, engaged hundreds of citizens in crafting requirements and setting priorities for efforts to improve Peoria's schools.
- <u>Chicago Community Trust, the Future of Illinois Food Security</u>, statewide summit generated requirements and priorities for providing "healthy food for all," statewide.
- Ocean Leadership, the Future of Ship-to-Shore Education, developed and chartered pilot projects for multi-team, NSA-funded, national ocean science education initiative.

...from 30+ years of global experience in Open Space.

## **Additional Notes**



- Four powerful drivers of Agile success, make other Agile methods smarter
  - Invitation and voluntary self-selection vs. assignments and mandates
  - Broad, active stakeholder participation vs. token stakeholder representation
  - Experiential learning of values and principles vs. enforcing prescribed behaviors
  - Technical requirements and tasks deeply and directly tied to specific business needs and issues
- Highly flexible: Introduce in any "complex" project/setting, scale/shape to fit unique needs/issues
- Open Analysis can be done in summit or serial meetings, in shortest time possible, with go/no-go decision at the conclusion of step 1.4 and/or 1.5.
- Key (CRACK) stakeholders surface in Open Space: Collaborative, Representative, Authorized,
   Committed and Knowledgeable breakout session conveners become obvious stakeholder core
- Minimum Viable Participation or Scrum of non-Scrums: Core Scrum/XP team(s) can keep cadence,
   supporting teams and stakeholders connect via intra- and inter-team stand-ups
- Open Space teaches agility through individual choice, collaborative interactions, personal commitment and responsibility, transparent working documentation, and adapting to change within strategic parameters.
- Low start-up cost, short lead times, high returns, and learning endures

### Where to Start?

#### Where's Your Wicked Complexity?

- Product/Initiative?
- Business Stakeholder Universe (ALL stakeholders)?
- Development Team(s)?
- When and Where?
- What would Wicked Success look like?

