Using serious games as a management tool in transitioning to agile practices

Gloria J. Miller, Managing Consultant Project & Program Management

Project Challenge October 12, 2023



Gloria J. Miller, Project Manager





Profile

- Program and Project Manager of Information Technology and Business Intelligence/Analytical projects
- 20+ years experience with agile and traditional methodologies.
- Author of 'Going Agile Project Management Practices 3rd Edition'
- Founder of the IT and management consultancy company maxmetrics

Education

- DBA Project Management
- MBA
- BS Computer Science
- AAS Electronic Technology
 Certifications
- PMP®
- PMI®-ACP
- Certified ScrumMaster®

Victoria Vaca Núñez, Project Assistant



Profile

- Professional skilled in knowledge management, responsible for effective knowledge sharing to re-use project documentation and reports
- Demonstrated history of working in the information technology and services industry as a project assistant

Education

- MA in Spanish Linguistics
- Bachelor's degree in German Philology

Certifications

Certified ScrumMaster®



Useful Agile Practices

Topics:

Introduction





Serious games





Introduction

Agility –vs- Agile –vs- Agile Methods



Agility

• "the capability to quickly sense and adapt to external and internal changes to deliver relevant results in a productive and cost-effective manner."



5

Agile

 "a mindset based on a set of key values and principles designed to better enable collaborative work and deliver continuous value through a "peoplefirst" orientation."

> Agile Practices

Using serious games as a management tool

Agile Projects

• "employ a single agile approach or framework ... or a mixture of different agile approaches."

> Scrum, Kanban, XP

12-Oct-2023 (PMI, 2017, p. 2)



Using serious games as a management tool in transitioning to agile practices



1. Our highest priority is to satisfy	2. Welcome <u>changing</u>	3. Deliver working software	4. Business people and developers
the customer through early and	requirements, even late in	frequently, from a <u>couple of weeks</u>	must work together <u>daily</u>
continuous delivery of valuable	development. Agile processes	to a couple of months, with a	throughout the project.
software.	harness change for the customer'	preference to the shorter timescale.	
	competitive advantage.		
5. Build projects around motivated	6. The most efficient and effective	7. Working software is the primary	8. Agile processes promote
individuals. Give them the	method of conveying information to	measure of progress.	sustainable development. The
environment and support they	and within a development team is		sponsors, developers, and users
need, and <u>trust them to get the job</u>	face-to-face conversation.		should be able to maintain a
done.			constant pace indefinitely.
9. Continuous attention to technical	10. Simplicity–the art of maximizing	11. The best architectures,	12. At regular intervals, the team
excellence and good design	the amount of work not done-is	requirements, and designs emerge	reflects on how to become more
enhances agility.	essential.	from <u>self-organizing teams</u> .	effective, then tunes and adjusts its
			behavior_accordingly
7			www.agilemanifesto.org

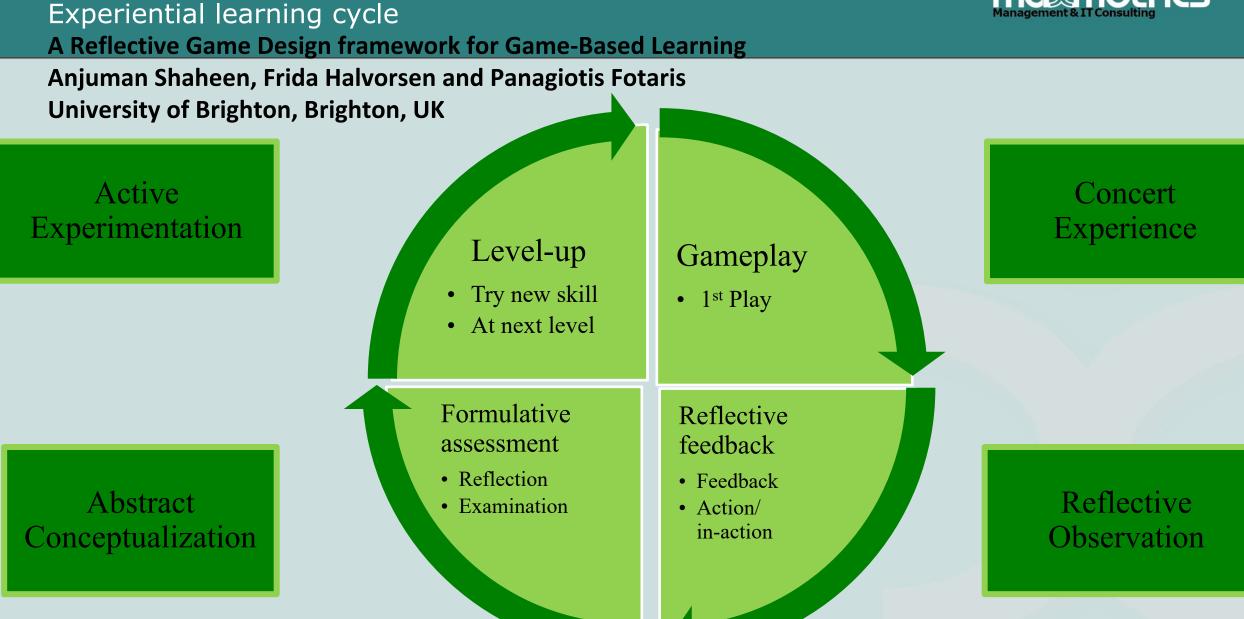


Serious games are games that engage the user and contribute to the achievement of a *defined purpose* other than pure entertainment (whether or not the user is consciously aware of it)" (Engström and Backlund (2021), pg 1).

- Game dynamics -- rankings, rewards or point systems -- motivate players to get more points, coins, lives or go to the next level.
- **Simulation** --reproduce, imitate or simulate real life situations immerse players in a similar situation, interact to a simulated reality, practice the skills.
- Learning -- teach something -- educate players as a process for improving knowledge transfer.



12-Oct-2023





Serious Games





Innovation Games

- Understand client needs and processes
- https://wind4change.com/innovationgames-luke-hohmann-what/



Agile games

- Team building & creativity
- https://miro.com/blog/agile-games-toboost-team-building/



Simulation Games

- Real world scenarios
- https://theprojectwingame.com/





Marshmallow Tower. **TIME TO PLAY:** 20 minutes (for one round) **LEARNING OBJECTIVES:** Collaboration and iteration

Paper Airplane Game. **TIME TO PLAY :** 45 minutes (nine-minute sprints) **LEARNING OBJECTIVES:** Iteration and time blocks

Bubble Point Game. **TIME TO PLAY:** 10 minutes **LEARNING OBJECTIVES:** Decision making and collaboration

Coin Game. **TIME TO PLAY:** 20 minutes **LEARNING OBJECTIVES:** Self-organization and focus

Ball Point Game. **TIME TO PLAY** : 15+ minutes (three-minute sprints) **LEARNING OBJECTIVES:** Agile production process

https://miro.com/blog/agile-games-to-boost-team-building/

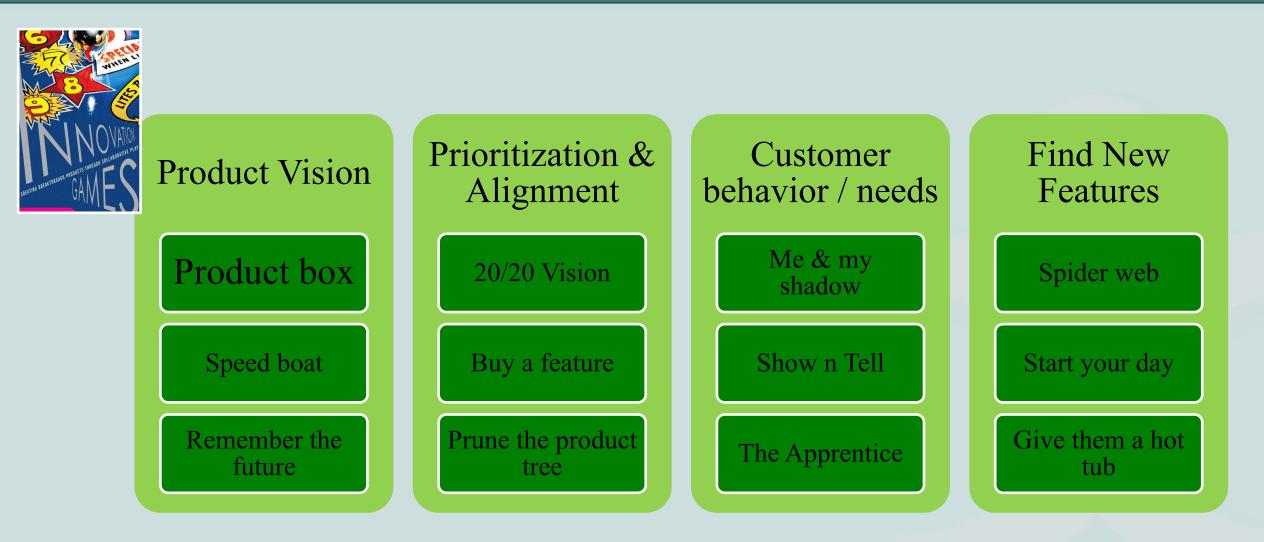
Paper Airplane Game @ PMI Madrid





Innovation Games





https://wind4change.com/innovation-games-luke-hohmann-what/

12-Oct-2023

Using serious games as a management tool

Innovation Games for Agile-Budget-Problem



Many games are based on customers working together creating, negotiating, explaining, prioritizing, and envisioning the products and services that will enable them to accomplish their goals.

Luke Hohmann

BANG-FOR-THE-BUCK

'Bang-for-the-Buck' is a game in which the stakeholders collaborate to prioritize the product backlog based on value and risk. The goal is to have the stakeholders prioritize what's important and valuable.



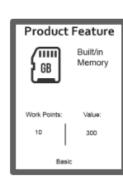


BUY A FEATURE

In 'Buy a Feature,' stakeholders are given a fixed budget. They're shown features and estimated prices, and the stakeholders must decide which features to purchase for that budget.

20/20 VISION

In '20/20 Vision', customers negotiate the relative order of importance of product features. The goal is to order the features from most to least important.



Simulation Games: The Project Win Game™



- In Scrum projects, ~44% of PM tasks from ISO 21500:2012 Guidance on Project Management have been delegated to the others or are shared with the PM
- Project experience showed people struggling to understand the new responsibilities
- The Project Win Game™
- US Patented board game to simulate the agile and traditional project experience while reacting to risks, issues, and opportunities.



https://theprojectwingame.com/

12-Oct-2023

Using serious games as a management tool



earnin
raditio
est tea
ll at or
daptin
llocati
radeof
ealing

ngs onal/waterfall -vs- agile am composition nce -vs- incremental ng to good/bad situations ing money ff in cost –vs- value g with unexpected events

The Project Win Game[™] Heidelberg Sessions





Using serious games as a management tool



Game Play



- 1. Organize participation
- 2. Set-up game environment
- 3. Explains game play (pre-brief)
- 4. Control the pace of play
- 5. Monitor participation
- 6. Manages the overall event
- 7. Facilitate discussion (de-brief)



Quick Team Building Games by Wrike

Objectives:

- Team building
- Communication, interpretation

Material:

- Paper sketches
- Pencils/pens

Time period:

- Introduction 2-3 minutes
- Game play 5-10 minutes
- Debrief 2-3 minutes



21 Source: https://www.wrike.com/de/blog/12-geniale-teambuilding-spiele-die-ihrem-team-garantiert-spas-machen/

12-Oct-2023

Using serious games as a management tool



Communication



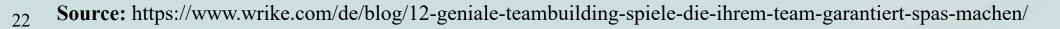
Quick Team Building Games by Wrike

Players:

- Split into 2-people teams
- Sit face to face one another

Rules:

- Person 1: Describe the picture that you received to the partner; without saying what it is.
- Person 2: Draw the picture as described by your partner.
- Switch places: Person 2 describes, Person 1 draws
- Upon completion share the results







Partner -to- partner:

- How close or far away from what you expected did your partner draw?
- Why do you think you got that outcome?
- How did you feel about the experience? Time pressure? Partners reaction?
- What would you do different next time?

Facilitator to team:

- How well did the partner communicate?
- How did they handle stress?





Conclusions





- Go to: <u>www.menti.com</u>
- Enter Code: 3815 2851

OR



Answer the Question:

Would you use a serious game/gamification on your projects?



Overall

- Engaging, fun learning for serious purpose
- Safe environment to fail, to try, to learn
- Leveraging multi-dimensions of communication
- Multidisciplinary players, teams

+ for Innovation games

- Puts ownership, control with relevant participates
- Produces visual artifacts useful for the project

+ for management

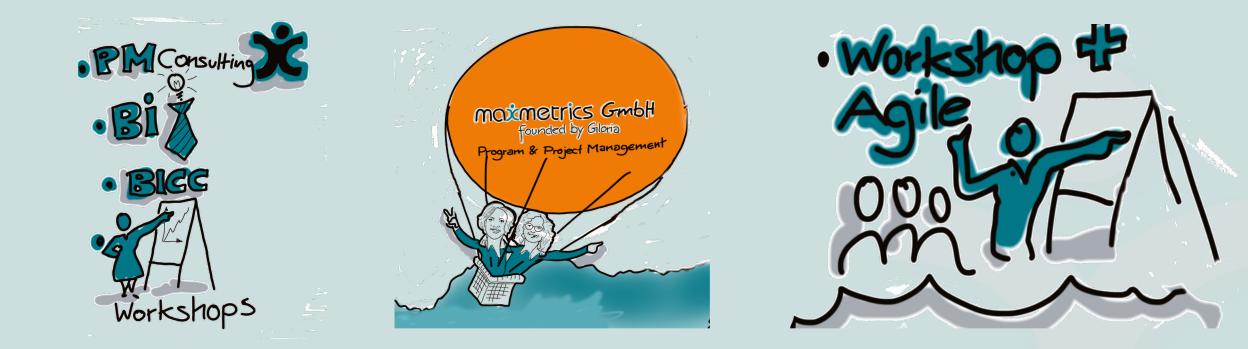
• gain impression in how people communicate, work together, decide











Gloria J. Miller, DBA

gloria.miller@maxmetrics.com Linked in: http://www.linkedin.com/in/gloriajmiller Twitter: @maxmetrics

12-Oct-2023