



Scrum @BioWare: Lessons Learned

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"BioWare's vision is to deliver the best story-driven games in the world."



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Quick Intro

- BioWare started on Agile three years ago
- All Projects now using Agile
- We are still learning and adapting
- Here are some of our lessons learned along the way



The Goal

High **Quality** Games, at lower **cost** and that are as **fun** to develop as they are to play

- High metacritic rating
(www.metacritic.com)
- Less rework, less over-engineering
- Less overtime, less voluntary departure

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How we got started...



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How we got started...

- Hired some good leaders with Agile experience
- Pilot Project – no commitment, one team, one month, internal training only
- Results showed good progress and momentum
- Other projects interested, and wanted in
- External Training to solidify knowledge

When the simplest thing that could possibly work doesn't work

The simple single-team & single product owner scenario doesn't fit our reality, so we do have a more complicated Scrum environment:

- Large project team size requires multiple scrum teams
- Large variety of skillsets requires careful dependency coordination
- Large project scope requires multiple product owners
- Multiple teams / owners requires additional meetings for some roles (SM/PO)

Lesson Learned #1

A clear Release Roadmap
is critically important!

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Release Roadmap

- Essential for the key stakeholders of the project
- Sprints focus on short-term
- Releases focus on the long-term
- Roadmap keeps the destination in mind

Release Roadmap

- Offsite meeting (reduce distractions)
- Define Release Objectives
 - Defined by themes (e.g.: prototype) or events (shows/conferences)
 - Release duration: 9-12 weeks
- Create one product backlog for all teams
 - Only Epic user stories
 - Estimated
- Roadmap: distribute user stories throughout releases
- Review once per quarter

Release Planning

- Half-day to a day long meeting (~2 weeks prior of the release)
- Establish goals and acceptance criteria for the release
- Scope, not date or quality is the variable
- Review team composition
- ***Facilitator and Leader are key!***
- All teams commit to the same rhythm of iterations (easier to manage dependencies)
- Last sprint is dedicated to polish (no new development)
- How we deal with technical debt

Lesson Learned #2

Multi-discipline teams
should be seated together



Team Composition

- **Seat the team together!**
- **Make teams multi-functional
until**
- **...all questions and risks are
answered (Production)**

Iteration/Sprint planning

- Pre-Sprint planning meeting
 - review release backlog
 - update priorities
 - create acceptance criteria
- Sprint planning meeting
 - Product Owner go over the top user stories
 - Team review and proposes scope for the sprint and commits to it
 - Create sprint goal
 - Explode user stories in tasks
 - How to demo – a high-level description of how this backlog item will be demonstrated at the sprint demo
- Unplanned items (Rate of Discovery)
- Only QA and Product Owner can confirm that a user story is 'done'

Lesson Learned #3

Delegated Product Ownership
is necessary for large projects



Product Ownership

- Delegate responsibility
 - Exec Producer to Core Leads
- Product ownership council w/ Leader
- Separate backlogs, reviewed together
- Need a system for new entries into backlog
- Regular review and re-prioritizing must be a priority!

Lesson Learned #4

Teams like visual and
tactile communication systems

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Team composition – visual tool



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Task board



***We now use Hansoft extensively,
but some teams still prefer a board***

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Lesson Learned #5

Get the right people in the key roles of
Product Owner and Scrum Master

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Product Ownership

- Primary responsibility of the Product Owner is to create and maintain the product backlog:
 - Approving and prioritizing new stories added to their backlogs
 - Ensuring that all stories have up to date (high-level) estimates
 - Regularly re-prioritizing the list so that sprint teams always have up to date backlog lists
 - Approving the deliverables for each sprint

ScrumMaster responsibilities

The ScrumMaster is a Leader and Facilitator and is responsible for:

- Manage and ensure that the process is followed.
- **Shield the team from external interferences** and promptly sort out anything that is slowing down the team.
- Work closely with the product owner and QA to **establish the acceptance criteria** for all user stories. (very important task!)
- Work closely with QA to ensure that **all user stories are verified** before the end of the sprint.
- Ensure that the **user stories in the backlog are prioritized and estimated**. The ScrumMaster also schedule and facilitate the planning poker sessions.
- Track team's velocity and understand the deltas between sprints and react accordingly.
- **Communicate decisions** made by the team **to the other teams** and product owners in a timely fashion.
- Motivate, inspire and improve the lives and productivity of the development team.
- Review and improve the practices (e.g.: TDD, new tools).

ScrumMaster

- Project Managers (Dev Managers or Associate Producers) are best at this role
 - Can handle 1-2 scrum teams at a time
- Keep development staff making content & code
- Keep the Product Owners on top of the backlog
- Manage roadblocks, communicate to other teams

Lesson Learned #6

Do public sprint reviews

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Sprint Reviews

- Team
 - Team and PO do sprint retrospective to identify changes for next sprint.
 - Start/Stop/Continue
 - Review objectives, demo functionality, discuss improvements for next sprint.

Sprint Reviews

- Project
 - Entire team meets to view progress.
 - Only passed/accepted user stories are shown.
 - Highly biased toward playable, in-game content (NO SLIDEWARE!)
 - Open to a wide audience (potentially anyone in BW that's interested).

Lesson Learned #7

Know your rate of discovery

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Velocity & Burndown Charts

- Know your current “Rate of Discovery”
- Data tracked over time provides a great source for planning
- Teams don’t usually like to see charts, but they provide useful info
 - ScrumMaster tracking, team planning, dedication to process, and more
- Understand when discovery rates change

Summary: Lessons Learned

- Do a release roadmap
- Multi-functional teams should sit together
- Use product ownership delegation
- Use simple visual communication tools
- Get the right people in key roles
- Do public sprint reviews
- Know your rate of discovery

Conclusions

- Scrum has helped us meet short term goals
- Team velocity and productivity has improved
- Still requires good planning, leadership and management of teams
- Training is worth it!

Questions?



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