GAMES AS A SERVICE Lessons learned from 4+ years of Awesomenauts on Steam

Ronimo Games Robin Meijer & Joost van Dongen



Welcome!

- Robin Meijer, producer
- Joost van Dongen, lead-programmer and co-founder
- Ronimo Games, indie studio making games since 2007

ner and co-founder ng games since 2007





Introduction

- Awesomenauts
- 3v3 Online action-platforming
- Launched in 2012
- Seven years of development so far
- Games as a service business model





Introduction

- Talk about the Games as a Service model •
- Why we use this model
- Lessons we learned while supporting Awesomenauts since 2012
- •

Walk you through an update cycle, how we actually update our game



Games as a Service

After releasing a game you can...

MAKE A SEQUEL

Take lessons from your game / reception Make another, better / bigger one Focus on what made your game do well

MAKE ANOTHER GAME

Take lessons from development Make an unrelated game Focus on what you can do well

GAME AS A SERVICE

Learn about your game from players Grow existing project in relevant ways Focus on truly finishing what you started





Games as a Service

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For Games as a Service, you need:

- replayability)
- Some way to generate revenue from engaged players
- Some way to expand on existing content in meaningful way

GAME AS A SERVICE

Learn about your game from players Grow existing project in relevant ways Focus on truly finishing what you started

Ability for players to remain engaged for long periods of time (endless



Our vision on Games as a Service

- Putting player-count above immediate revenue.
- back.

Keeping the game fresh by releasing updates, giving players a reason to come





- Player-developer interaction
- Realizing our true vision
- Fairly easy on Steam, even as an indie
- Working on a live game is amazing
- Actually lots of fun



What does that mean?

- Around 69% of Steam revenue past Year 1
- Share of DLC vs. game sales in revenue increases
- Additional revenue outside Steam, enabled by ease of doing this on Steam.
- Over 2 million copies across platforms





LESSONS LEARNED FROM FOUR YEARS OF AWESOMENAUTS



- Launch Awesomenauts
- Future content essential part of our product description.
- Wanted to deliver on that soon, to show commitment





9-2012 SKINS

6-2013 HINTS 8-2013 KICKSTARTER

3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH

- Launch Awesomenauts
- Future content essential part of our product description.
- Wanted to deliver on that soon, to show commitment
- <u>Content was already done.</u>





-9-2012 SKINS

6-2013 HINTS 8-2013 KICKSTARTER

3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH

September 2012

- Released first cosmetic DLC
- Revenue from existing players
- Share of revenue grows over the years
- Players talk about 'supporting us'
- Need to experiment with content / price to see what resonates with players



Distribution of Revenue since August 2014



-6-2013 HINTS 8-2013 KICKSTARTER

-3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH

June 2013

- Getting better at communicating with • players
- Forum topic with hints about new character
- Vague hints got community engaged •
- Hardly any work
- Important lesson about communicating • with our most hardcore fans.



Joost



Post subject: Re: What is this a

<100% <75% <50% <25%





-8-2012 LAUNCH -9-2012 SKINS

-6-2013 HINTS 8-2013 KICKSTARTER

-3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH

- Releasing content when it's done •
- Updates not bringing players back •
- Growing number of 'dormant' players •
- •
- Players didn't have any idea of our long-term plans
- Kickstarter campaign to realize 'next level' Awesomenauts •



External forces result in players (Steam Sales, bundles, content creators)

-8-2012 LAUNCH -9-2012 SKINS

-6-2013 HINTS 8-2013 KICKSTARTER

-3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH

- Pitching Awesomenauts: Starstorr •
- Massive success •
- Players respond well to long-term • as

narrative resonated with what they wanted

- Players wanted to help us make this happen
- Post-launch crowdfunding is possible





-6-2013 HINTS -8-2013 KICKSTARTER

-3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH

- Don't make promises. They'll haunt you.
- Talk as much as you can about your vision
- Be open about things you *can* talk about

nt you. our vision < about





6-2013 HINTS
 8-2013 KICKSTARTER

3-2014 PLAYSTATION 44-2014 STEAM DEV DAYS

12-2015 METAPATCH

March 2014

- Successful launch on Playstation 4
- Ports capitalize further on existing content •
- Total revenue much smaller than Steam, still easily worth it •
- Games As A Service difficult on console •

-8-2012 LAUNCH -9-2012 SKINS

-6-2013 HINTS 8-2013 KICKSTARTER

-3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH

April 2014

- Dev Days 2014: •
- Bundling updates into one, address problem of ineffective updates •
- Moving updates beyond patch notes •

Robin Walker, Communication and Community in Games as Service

-8-2012 LAUNCH -9-2012 SKINS

-6-2013 HINTS 8-2013 KICKSTARTER

- 3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH

April 2014

- Named updates.
- Teasing content.
- Engaging community, getting them involved weeks ahead of launch.



ALL SHALL BE REVEALED ...



6-2013 HINTS
 8-2013 KICKSTARTER

3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH









8-2012 LAUNCH9-2012 SKINS

6-2013 HINTS
 8-2013 KICKSTARTER

3-2014 PLAYSTATION 44-2014 STEAM DEV DAYS

12-2015 METAPATCH

April 2014

- Updates resulted in player spikes
- Returning players
- Reaching players who didn't play anymore





6-2013 HINTS
 8-2013 KICKSTARTER

3-2014 PLAYSTATION 4
4-2014 STEAM DEV DAYS

12-2015 METAPATCH

April 2014

- Reaching out to 'dormant' players •
- Giving them a reason to come back •
- Presenting narrative, not just patch notes •
- Reaching out to them through Steam events, • announcements.
- Providing incentives for 'following' you. •

-8-2012 LAUNCH -9-2012 SKINS

-6-2013 HINTS 8-2013 KICKSTARTER

-3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH

-2017 BIG STUFF

- Continued doing updates this way.
- Impact slowly decreasing.
- Facing same issue again.
- Bundling updates further, narratives.



8-2012 LAUNCH9-2012 SKINS

6-2013 HINTS
 8-2013 KICKSTARTER

3-2014 PLAYSTATION 4
4-2014 STEAM DEV DAYS

•12-2015 METAPATCH

- Meta-update •
- Sharing content more than 6 months ahead
- Press picks up the story again
- Plenty to look forward to
- Players assured of future of the game •
- New DLC drives revenue

SHOTGUN

Gnarly: Awesomenauts Overdrive Expansion Announced

By Alice O'Connor on December 22nd, 2015 at 10:51 am.

Share this: f 🔰 🥶







-8-2012 LAUNCH -9-2012 SKINS

-6-2013 HINTS 8-2013 KICKSTARTER

-3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH

- Players return for launch of the new mega-• update
- Lots of new content to experience •
- Refreshes game, after four year •



-8-2012 LAUNCH -9-2012 SKINS

-6-2013 HINTS 8-2013 KICKSTARTER

3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH

- Selling gameplay content as DLC generates • revenue
- Poor communication •
- Player backlash •
- Balancing free vs. paid content •

LeCallDeGatLelijk 79.3 hrs

POSTED: 2 SEPTEMBER

This game is THE WORST GAME EVER - HEAVY pay2win

Devs only care about money



Not Recommended

0.8 hrs last two weeks / 1,084.6 hrs

Posted: 17 Mar @ 4:05am Pay to win DLC with OP characters that





-6-2013 HINTS 8-2013 KICKSTARTER

-3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH



- vision.
- Big stuff coming for Awesomenauts •
- Still delivering on some old promises
- Not announcing anything yet •

Sticking with the narratives around updates, metapatches to communicate



-6-2013 HINTS 8-2013 KICKSTARTER

-3-2014 PLAYSTATION 4 4-2014 STEAM DEV DAYS

12-2015 METAPATCH

-2017 BIG STUFF

A PATCH: FROM CONCEPTION TO HOTFIX



Awesomenauts patching process

- Develop and iterate internally •
- Several weeks: open betas •
- Thursday: make build for QA •
- Friday: QA company •
- Monday-Wednesday: fixes and new build •
- Wednesday: launch •
- Friday: hotfix •
- Few weeks later: balance patch
- Months later: console patch •



develop

beta

build •QA ∙fix launch hotfix

balance

Prerequisite: patching on Steam

- Steam makes patches super easy •
- Patch can go live immediately •
- Can do multiple patches per day •
- Can revert to previous patch •
- Can launch new DLC yourself (if prepared) •



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Choosing what to make

Sources:

- Our own ideas
- Community requests
- Issues in the live game
- Long term vision
- Things previously cancelled



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launch
hotfix

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Player feedback

- Separate emotion from fact
- Players get angry and always disagree
- Players dislike stagnation, want new things AND hate change •
- Dev must grow a thick skin •

WHY THE HECK CAN LONESTAR DAMAGE THE BASE FROM THE TOP OF 1122225

I just lost a match because of this..... AND IM



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Balance

- Games As A Service is awesome for balancing •
- Can do lots of balance patches •
- Players expect demand constant balance tweaks
- Need player feedback and metrics to do balance •
- Perfect balance does not exist



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Balance and the meta

- Must regularly change even if balance already 'perfect' •
- Over time players flock towards same tactics •
- Boring: everyone does same thing •
- Even if tactic hardly overpowered •
- Players also discover new tactics over time





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Our current balance method

- Designer reads forums •
- Discusses in conference calls and Twitch streams .
- Makes list of planned changes
- Lets players give feedback on list
- Implements changes •
- Beta •
- Change based on feedback •



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Internal development

- Prototyping! •
- **Brainstorming!** •
- Playtesting! •
- Iterating! •
- Not talking about this today!
- Muhaha! •





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Using Public Beta instead of QA

- Each patch needs testing •
- Extensive QA *every month* too expensive for small dev •
- Also need player feedback •
- Solution: replace most QA with betas •



Ways to distribute betas

- Outside Steam
- Pre-launch on main app
- Separate Steam app
- Switchable Steam branch
- Dual-loaded DLC
- Live beta for everyone



Betas: Separate Steam app

- Completely separate application •
- Users can enable/disable download •
- Doesn't share economy/workshop/achievements •
- Need to set up and maintain Steamworks twice •
- Need help from Valve to set this up •

- MILLING U Assault Android Cactus Awesomenauts Awesomenauts Beta Banished Rastion



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∙fix launch hotfix

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Betas: Switchable Steam branch

- Standard Steam feature •
- User selects beta •
- Can be behind password •
- Hackers can see beta even without password
- User needs to download patch with every switch •
- Easiest way to do betas •

Select the beta you would like to opt into:

NONE - Opt out of all beta programs

Enter beta access code to unlock private betas:

CHECK CODE



Betas: Dual-loaded DLC

- Put beta in separate DLC depot •
- User enables free DLC to download and keep updated
- Ask on startup which version to run
- No download needed when user switches
- Entire game on disk twice
- Best way if repeated switching discourages users •
- Valve likes this because they don't need to do anything by hand for us •

ITEM 🔺

Awesomenauts - Beta dual-load PC

Auronomonouto – Pionio Doolung





Betas: Live beta for everyone

- For doing temporary betas on everyone •
- Entire game on disk twice •
- We check our own server to see which to run •
- Quick switch •
- Large playerbase •
- Beta with everyone = bugs for everyone •



Giving access to betas

- Open beta for everyone
- 'Secret' password
- As a Kickstarter reward
- Paid beta access



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Getting players into betas

- Only first beta of new content has many players •
- Matchmaking problematic with few beta players •
- Stale feedback after first round •
- Do marketing, play beta on Twitch •



Community translations

- Fans willing to help translate
- Build a small network of translators •
- Let them check each other's work •
- Can be super fast •
- Reward: Golden Duck icon •
- Use professionals when too complex / big •



Internal version management

- Lots of content in various stages of development
- Release one thing without getting bugs from another
- Standard solution: branches

We dislike branches:

- Too many merge conflicts when we refactor •
- New content 'hidden' internally



Internal version management

Our solution:

- Most development in trunk
- Branch off release build 1 week before patch
- Disable unfinished content in release branch
- Hotfixes based on this branch

efore patch ase branch



Hiding unreleased content

- Players hack game to find hidden content •
- Must remove content entirely or accept leaks
- Our solution: tool automatically removes assets from builds •



Paid QA

- Paid QA with a specialized company •
- We only do this for big releases •
- Limited testing of new content to reduce price •
- Send build to QA through Steam beta branch (behind password) •
- QA always on Friday, decide on Monday before •





Final fixes

- Monday to Wednesday •
- Fix issues found in QA
- Limited testing internally (~4 people 2 hours) •



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Why release on Wednesday?

- Not weekend: want to be around on release •
- Not Thursday/Friday: weekend work if hotfix needed
- Not Tuesday: Steam server maintenance •
- Not Monday: day before Steam server maintenance •





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Releasing the patch

- We do everything ourselves
- Except store items pre-approved by Valve
- Release patch on Wednesday evening (European time)
- Valve Seattle awake in case of emergencies

by Valve ning (European time) hergencies



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Roboscoop and game-key raffle every 15 minutes! Next raffle in: 07:38



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Patching problems on Steam

- Often broken files •
- Can take up to 24 hours before user receives update •
- Can require restarting Steam •
- Won't download while game is open •
- Period with different versions •



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Hotfix

- Every patch has issues •
- Despite internal testing, QA and betas •
- Solving this too expensive •
- Our solution: hotfix on Friday •
- Result: users dislike bugs, but appreciate fast hotfixes •





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Balance fix

Gameplay content gets balance fix after • several weeks

Why?

- Beta not played enough to find all exploits •
- Takes time to find best tactics •
- Feedback first few days 'incorrect'



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Patching and beta on console

- Certification makes patches super slow •
- Patch without new DLC: 1 week minimum, 2 weeks realistic • Patch with new DLC: 2 weeks minimum, 4 weeks realistic •
- No easy way to do betas



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Games as a service on console

- Better than last generation, still really difficult •
- Turnaround time too long
- Must plan much more •
- Can't fix quickly when needed •
- Requires more QA •



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Our solution for console

- Release everything on Steam first
- Wait for balance to settle on Steam •
- Create console patch afterwards •
- Result: PS4/X1 always months behind
- Console players hate this •



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balance



CONCLUSION



Conclusion

- Developing for a live game is super fun •
- Games As A Service can provide continuous income •
- Steam is awesome for Games As A Service
- Must plan first patches before launch
- Group content into big patches for marketing •
- Uses betas extensively •
- Learn when and how to communicate with the community •
- Develop a thick skin •



Want to talk?

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