## 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



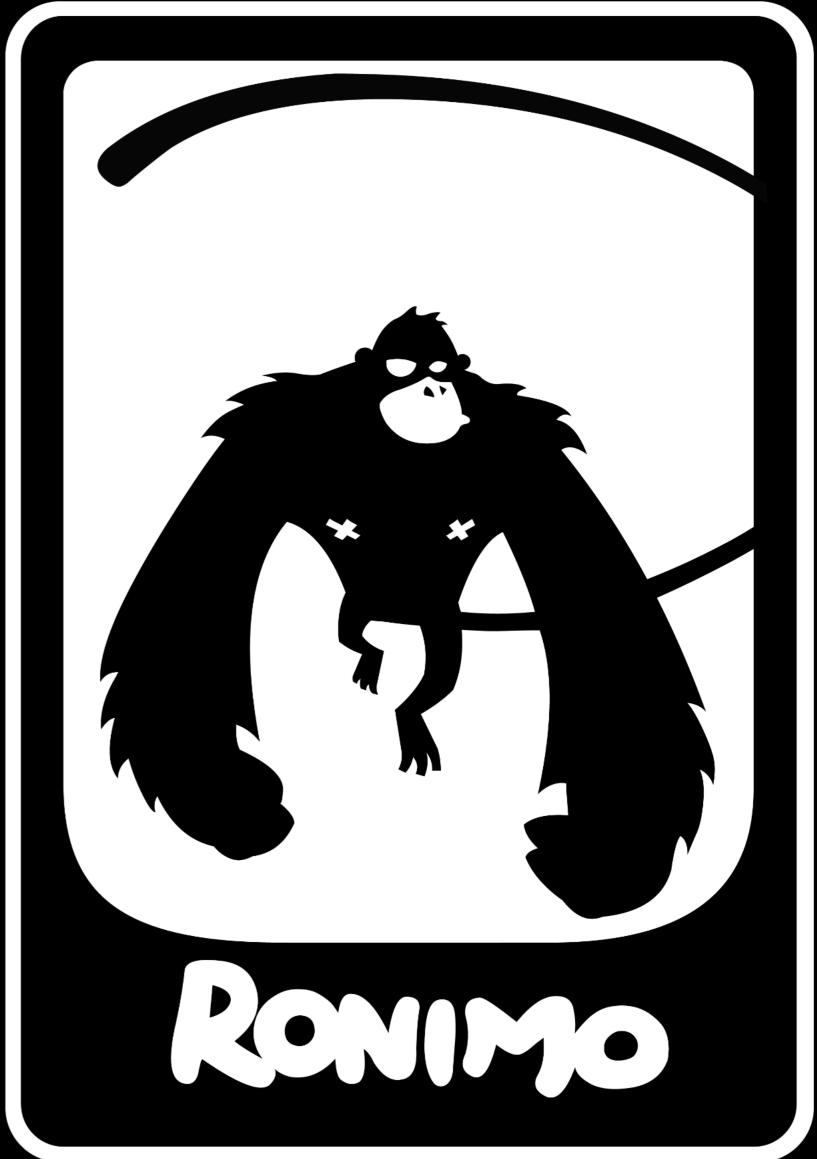




#### Introduction

- 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

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

#### For Games as a Service, you need:

- Ability for players to remain engaged for long periods of time (endless replayability)
- Some way to generate revenue from engaged players
- Some way to expand on existing content in meaningful way



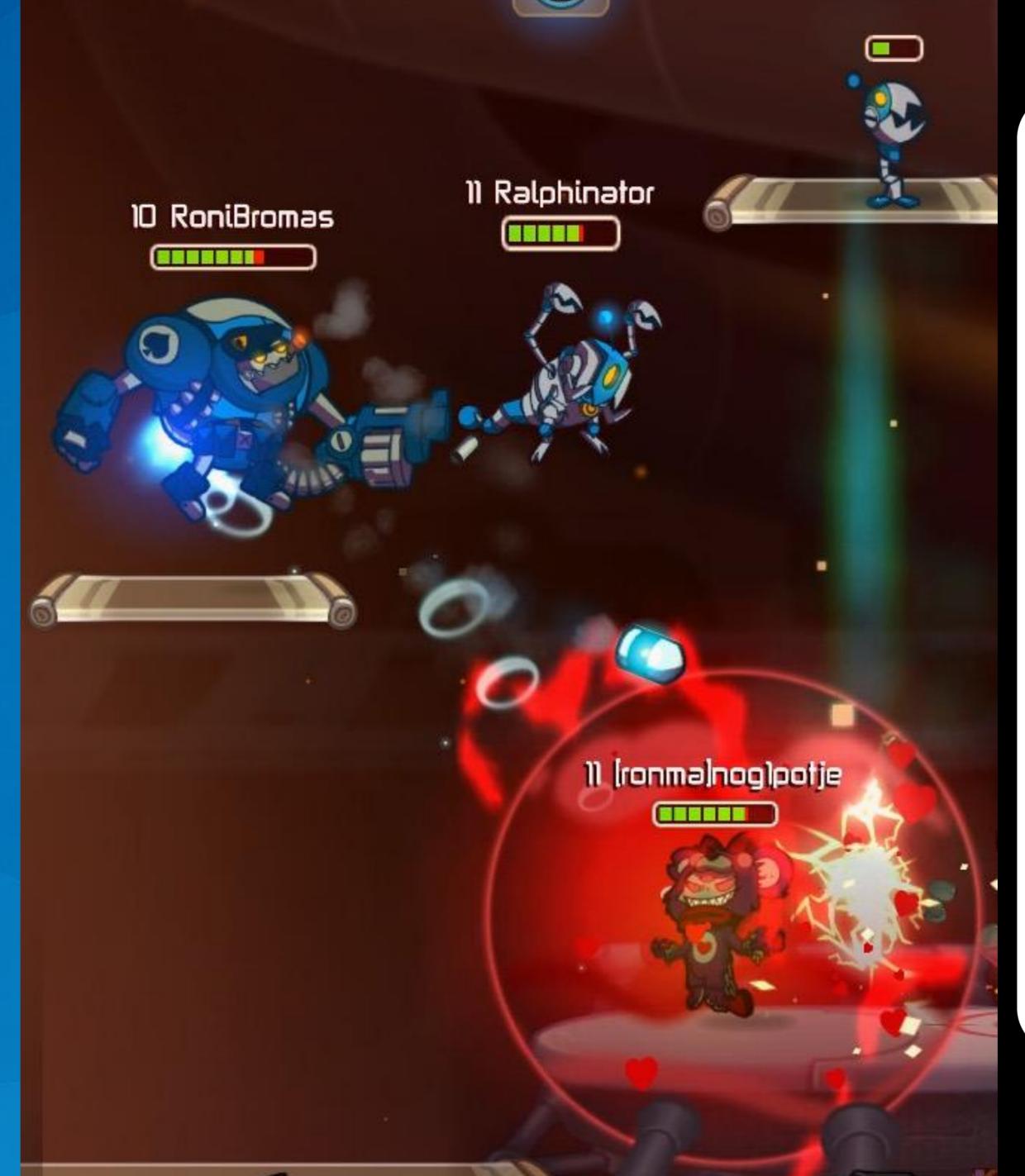
#### Our vision on Games as a Service

- Putting player-count above immediate revenue.
- Keeping the game fresh by releasing updates, giving players a reason to come back.



## Why...

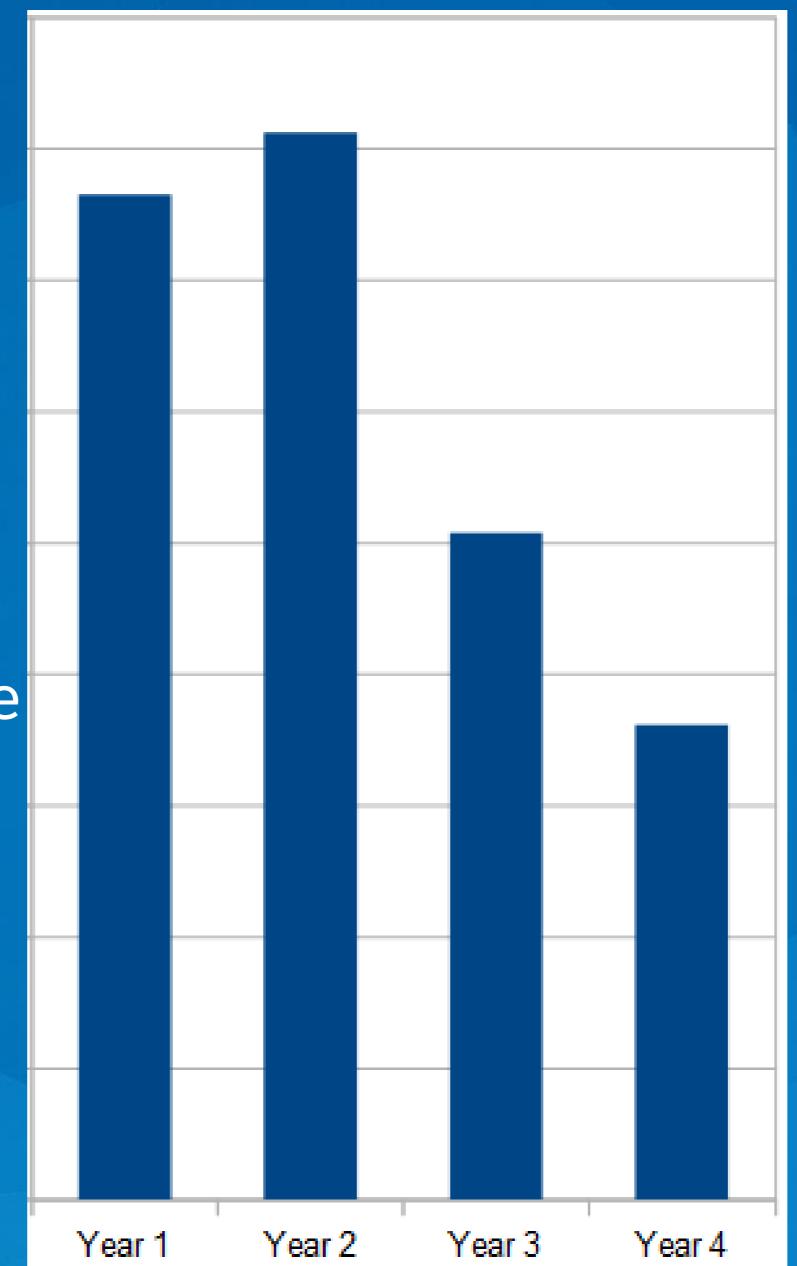
- Player-developer interaction
- Realizing our true vision
- Fairly easy on Steam, even as an indie
- Working on a live game is amazing
- Actually lots of fun





#### 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



- -8-2012 LAUNCH
- **-**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
- · Content was already done.



- -8-2012 LAUNCH
- **-**9-2012 SKINS

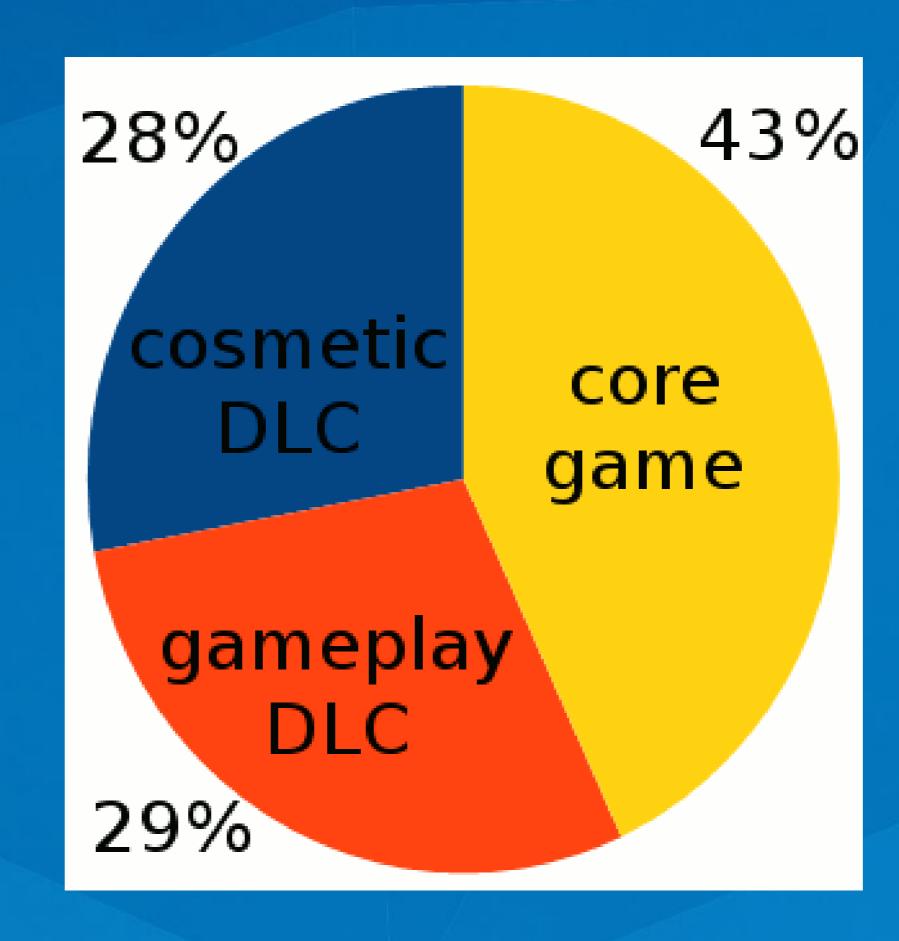
- **-**6-2013 HINTS
- -8-2013 KICKSTARTER

- -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

- -8-2012 LAUNCH
- -9-2012 SKINS

- **-**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.





- -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
- External forces result in players (Steam Sales, bundles, content creators)
- Players didn't have any idea of our long-term plans
- Kickstarter campaign to realize 'next level' Awesomenauts

- -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



-8-2012 LAUNCH

**-**9-2012 SKINS

**-**6-2013 HINTS

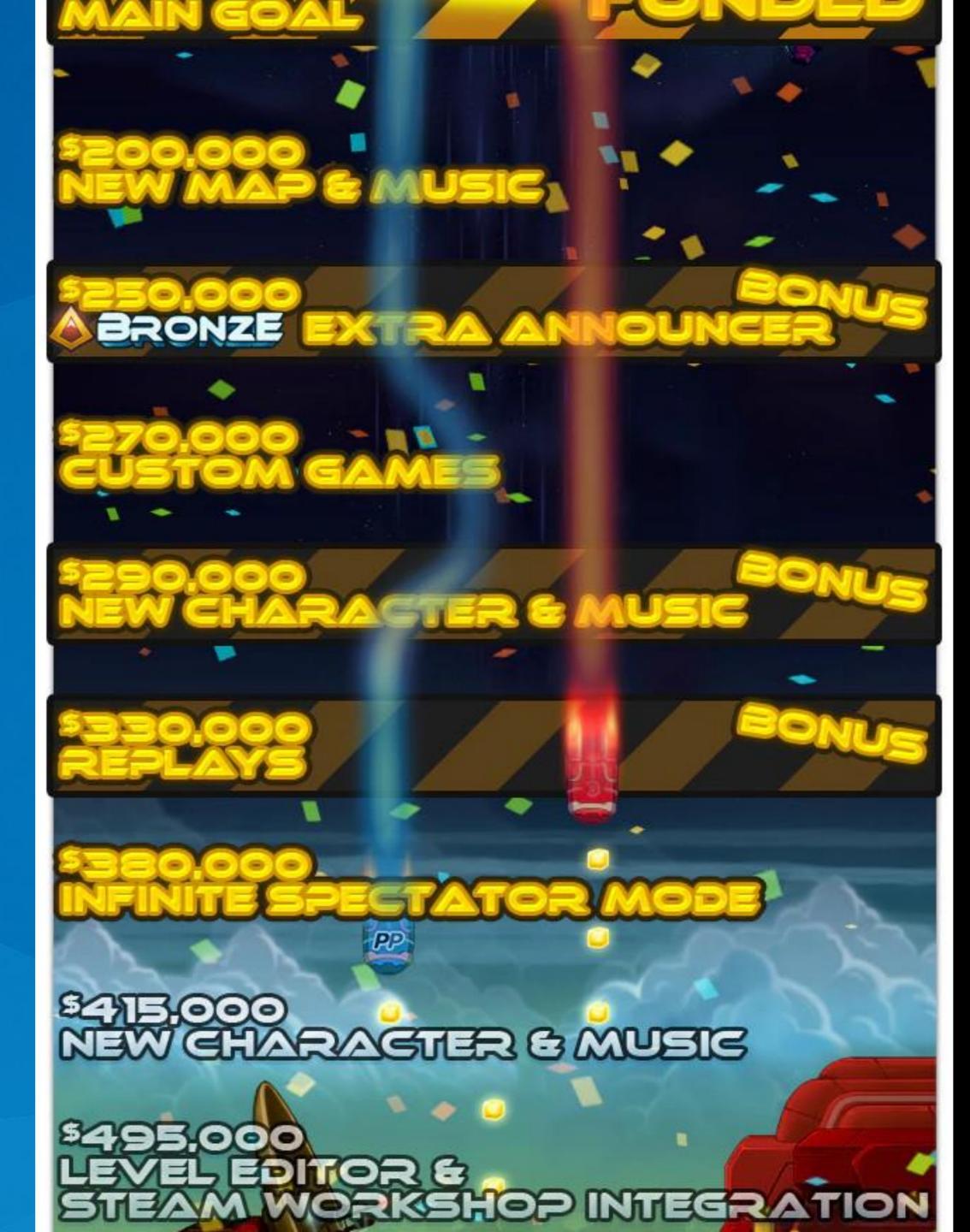
-8-2013 KICKSTARTER

-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



- -8-2012 LAUNCH
- **-**9-2012 SKINS

- -6-2013 HINTS
- -8-2013 KICKSTARTER

- -3-2014 PLAYSTATION 4
- -4-2014 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:
   Robin Walker, Communication and Community in Games as Service
- · Bundling updates into one, address problem of ineffective updates
- Moving updates beyond patch notes

- -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.



- -8-2012 LAUNCH
- **-**9-2012 SKINS

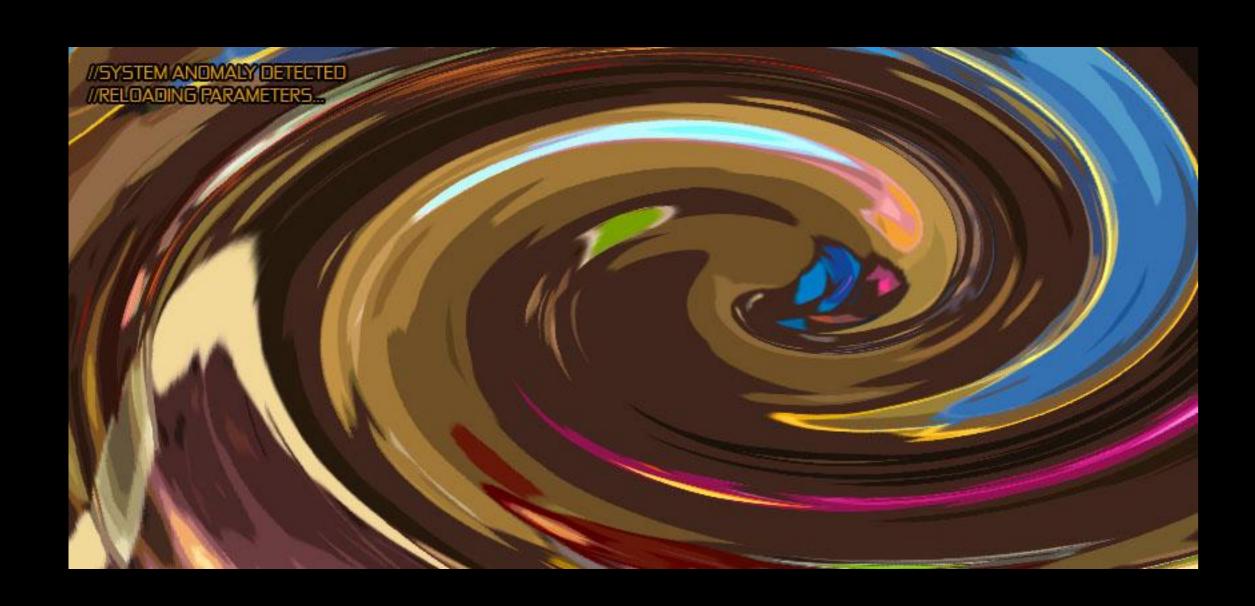
- **-**6-2013 HINTS
- -8-2013 KICKSTARTER

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

-12-2015 METAPATCH









- -8-2012 LAUNCH
- **-**9-2012 SKINS

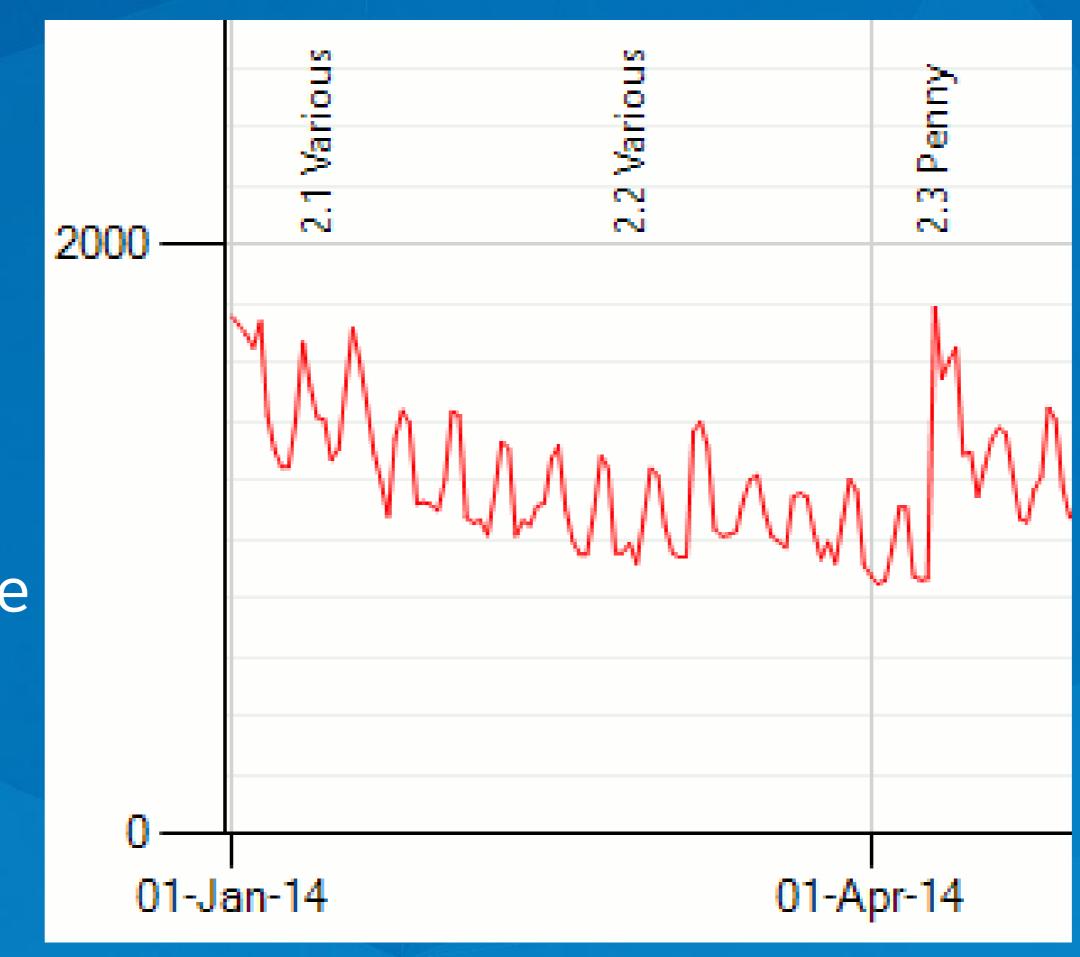
- **-**6-2013 HINTS
- -8-2013 KICKSTARTER

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

-12-2015 METAPATCH

## April 2014

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



- -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

- 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

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

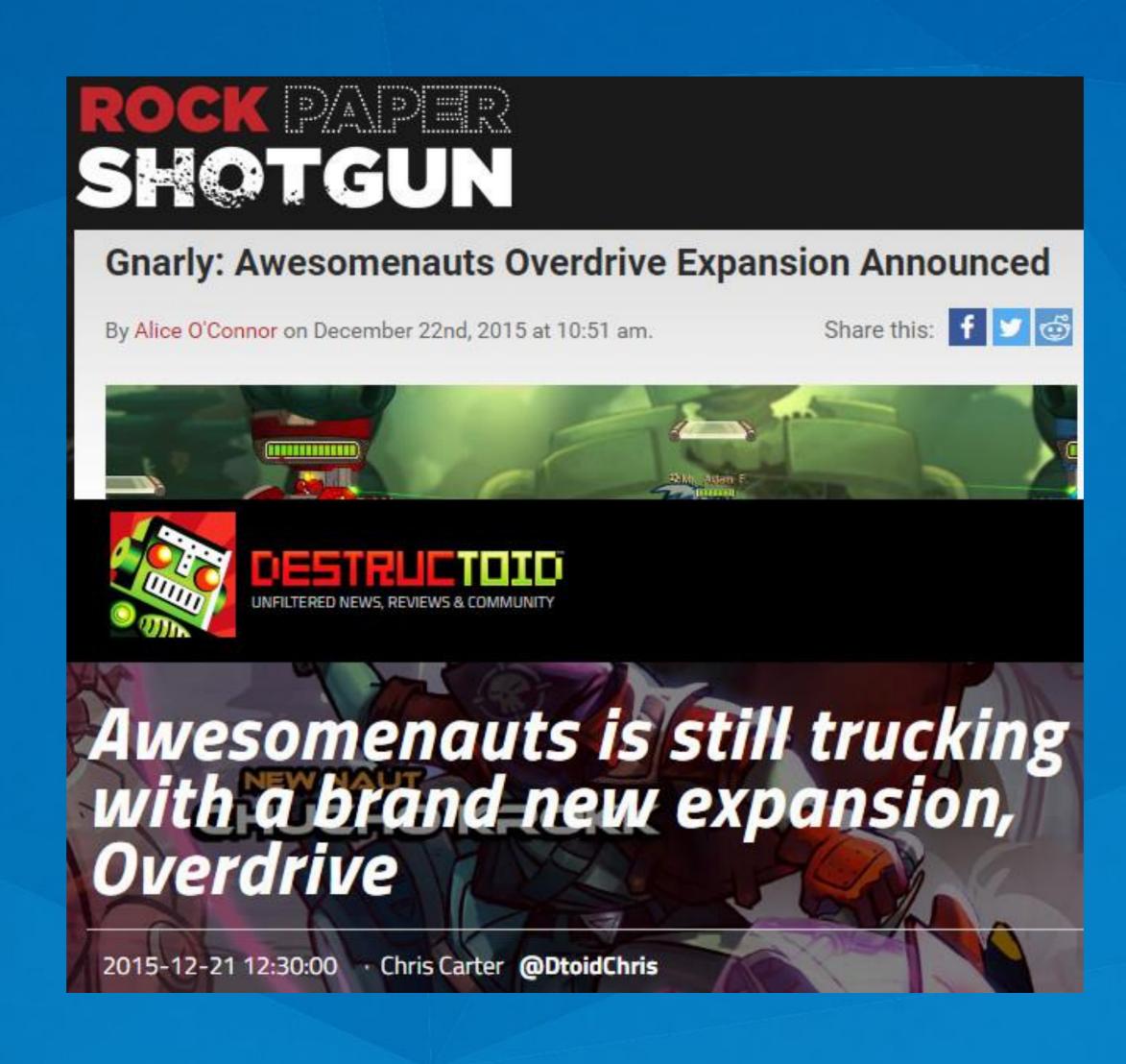
- -8-2012 LAUNCH
- **-**9-2012 SKINS

- **-**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



- -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 megaupdate

Lots of new content to experience

· Refreshes game, after four year



- -8-2012 LAUNCH
- -9-2012 SKINS

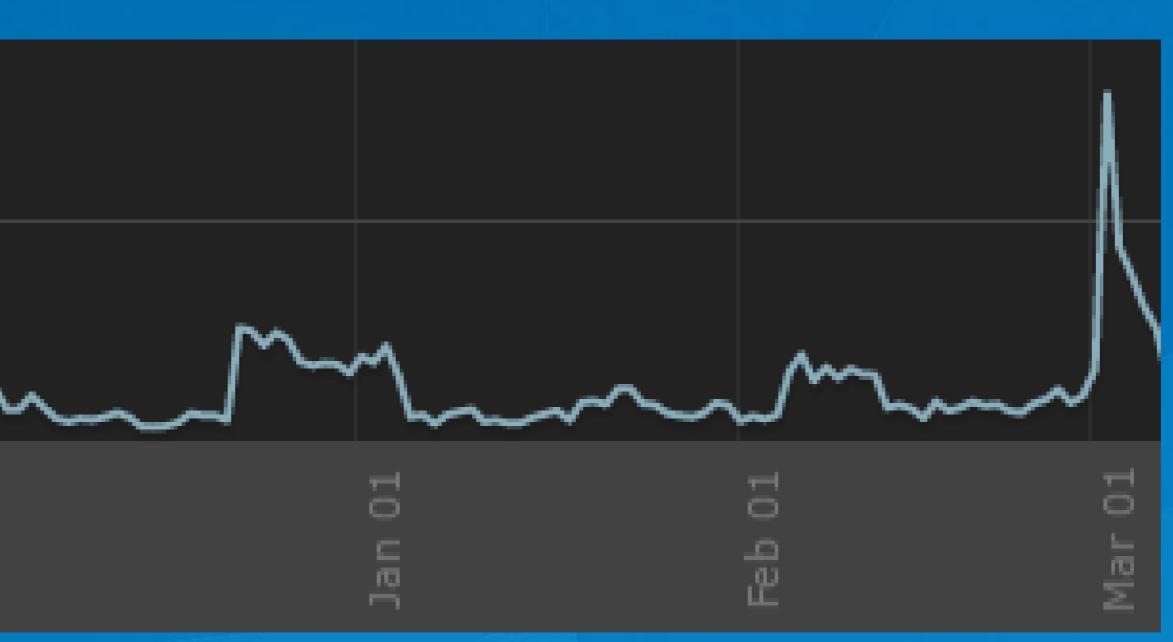
- **-**6-2013 HINTS
- -8-2013 KICKSTARTER

- -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





- -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

- Sticking with the narratives around updates, metapatches to communicate vision.
- Big stuff coming for Awesomenauts
- Still delivering on some old promises
- Not announcing anything yet

- -8-2012 LAUNCH
- **-**9-2012 SKINS

- **-**6-2013 HINTS
- -8-2013 KICKSTARTER

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

-12-2015 METAPATCH

## 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)

develop

beta

build

**-**QA

**-**fix

launch

hotfix

balance

#### Choosing what to make

#### Sources:

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

develop

beta

build

**QA** 

∍fix

launch

hotfix

balance

### 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 IT!!!!?????

 develop

•beta

**-** build

•QA

fix

launch

hotfix

balance

#### 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

develop

beta

build

**-**QA

∙fix

-launch

hotfix

balance

#### 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

develop

beta

build

**QA** 

∍fix

■launch

hotfix

balance

#### 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

develop

beta

build

**-**QA

∙fix

launch

hotfix

balance

## Internal development

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

develop

beta

build

**Q**A

∍fix

launch

hotfix

balance

## 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

develop

**-**beta

build

**-**QA

∍fix

launch

hotfix

balance

## Ways to distribute betas

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

develop

-beta

build

**-**QA

**-**fix

launch

hotfix

balance

#### 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

Armikrog
Assault Android Cactus
Awesomenauts
Awesomenauts Beta
Banished
Bastion

develop

beta

build

**QA** 

fix

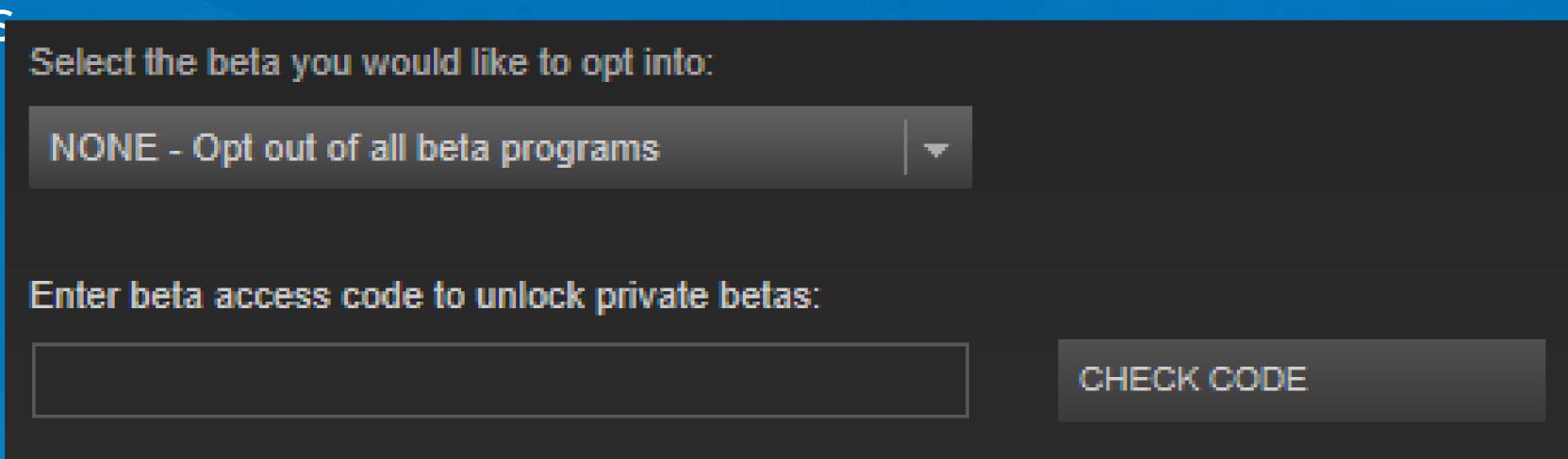
∍launch

hotfix

balance

#### 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



develop

∍beta

build

**-**QA

∍fix

-launch

hotfix

balance

#### 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



develop

•beta

build

**-**QA

fix

-launch

hotfix

balance

## 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

develop

beta

build

**-**QA

∙fix

launch

hotfix

balance

## Giving access to betas

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



develop

**-**beta

build

**Q**A

∍fix

-launch

hotfix

balance

## 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

develop

**-**beta

build

**-**QA

∍fix

launch

hotfix

balance

## 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



develop

beta

build

-QA

∍fix

launch

hotfix

balance

## 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

develop

•beta

build

•QA

∍fix

■launch

hotfix

balance

## 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

develop

•beta

build

**-**QA

∍fix

launch

hotfix

balance

## 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

develop

beta

build

**-**QA

fix

launch

hotfix

balance

#### 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

develop

beta

build

·QA

fix

launch

hotfix

balance

#### Final fixes

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

develop

beta

build

•QA

fix

-launch

hotfix

balance

## 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

develop

beta

build

**-**QA

fix

•launch

hotfix

balance

## 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

develop

beta

build

**-**QA

∍fix

launch

hotfix

balance



develop

-beta

- build
- **-**QA
- **⊃**fi>
- -launch
- hotfix

balance

#### 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

develop

•beta

build

QA

fix

launch

hotfix

balance

#### 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

develop

•beta

**-** build

**Q**A

∍fix

launch

hotfix

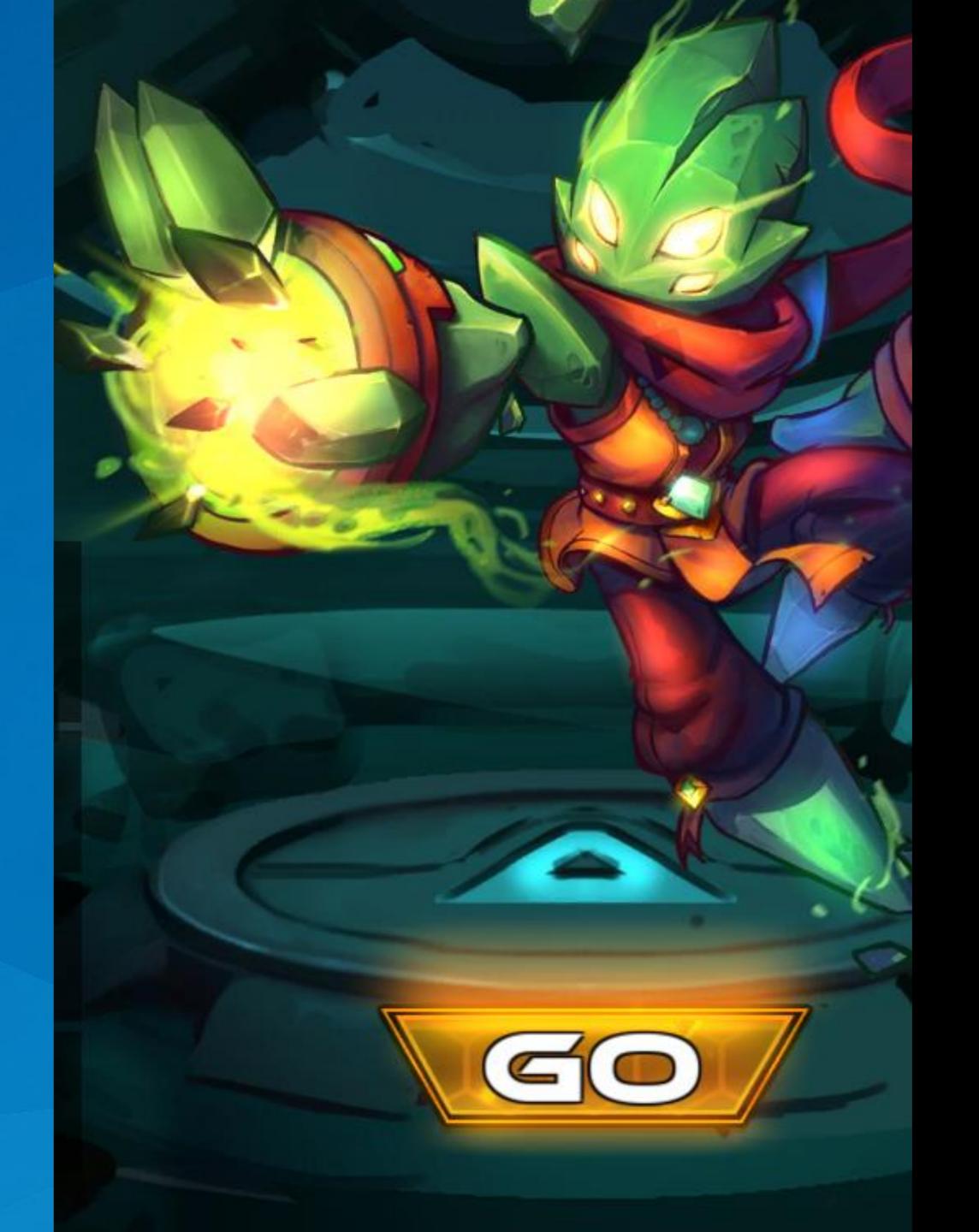
balance

#### 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'



develop

beta

build

**Q**A

∍fix

-launch

hotfix

balance

## 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

develop

•beta

build

QA

fix

launch

hotfix

balance

#### 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

develop

•beta

build

**-**QA

∍fix

-launch

hotfix

balance

#### 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

develop

beta

build

**-**QA

∍fix

**-**launch

hotfix

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?

Joost van Dongen

joost@ronimo-games.com

Dev blog: www.joostvandongen.com

Robin Meijer

robin@ronimo-games.com

