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# An introduction to applying agile methodology to game development

- History of agile at High Moon
- What is a gile? Why use it?
- Overview of *Scrum*, one agile methodology
- Agile Planning
- The results of using agile at High Moon
- Q&A

This is about what we experienced, not the "Right Way" to make games.



# History of Agile at High Moon

- Used Scrum in last year of Darkwatch
  - Helped keep the project on track
- Adopted XP and agile planning practices on new projects over the last two years







# What is agile?

- It's a method for developing products using short iterations
  - Each iteration is like a short project in itself
  - Uses "inspect and adapt" practices to adjust the project plan.



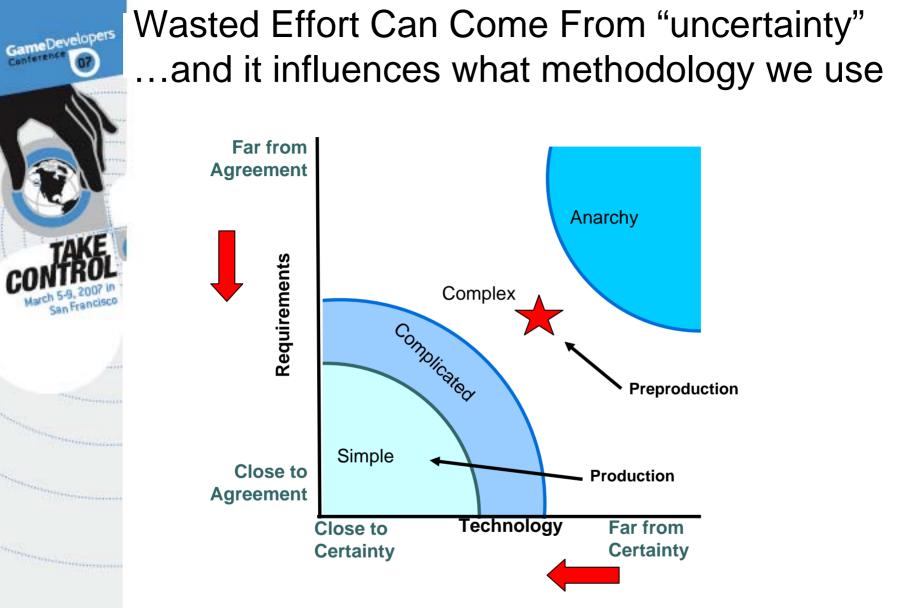
# Why Adopt Agile?

The Reasons/Goals: Reduce wasted effort/crunch
To find the fun first

Other industries have used agile to develop better products faster. Can we?



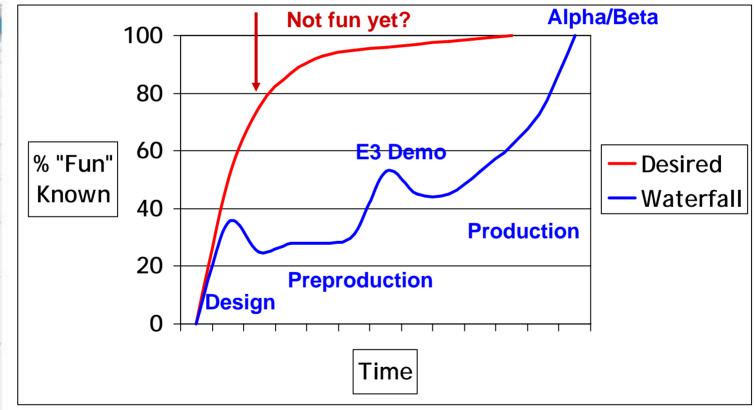
#### The Agile Manifesto (for GD) People and **Process and** over communication Tools Design documentation Working game over Customer Contract over negotiation collaboration Responding to Following a plan over change WWW.GDCONF.COM



Source: Strategic Management and Organizational az by Ralph Stacey in Agile Software Development with Scrum by Ken Schwaber and Mike Beedle.



## Finding the Fun First





#### What is Scrum?







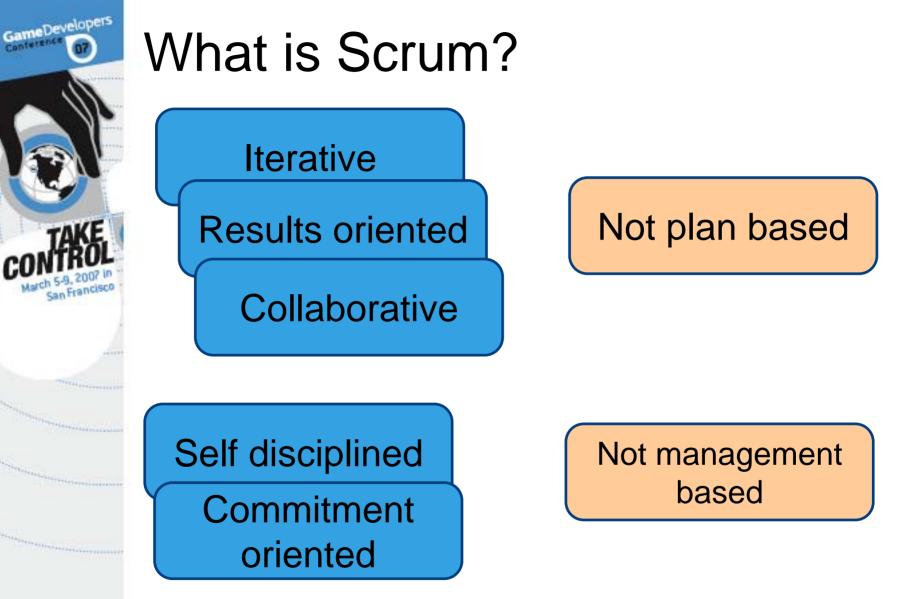
# What is Scrum?

People and communication

Working game

Customer collaboration

Responding to change





About making things visible so you can apply common sense



## The Scrum Cast



Artist



SMARAS

CMP





Artist

Team



**Scrum Master** 

Anyone. Not a lead role

Animator



Programmer

Designer

**Product** 

**Owner** 



**Director** 

Marketing

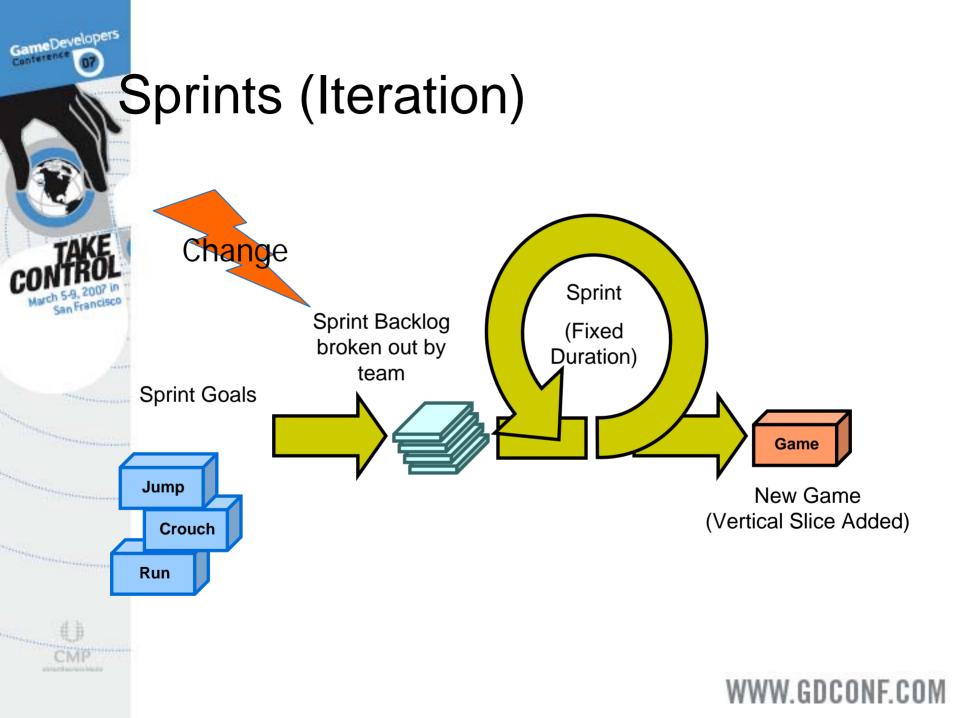


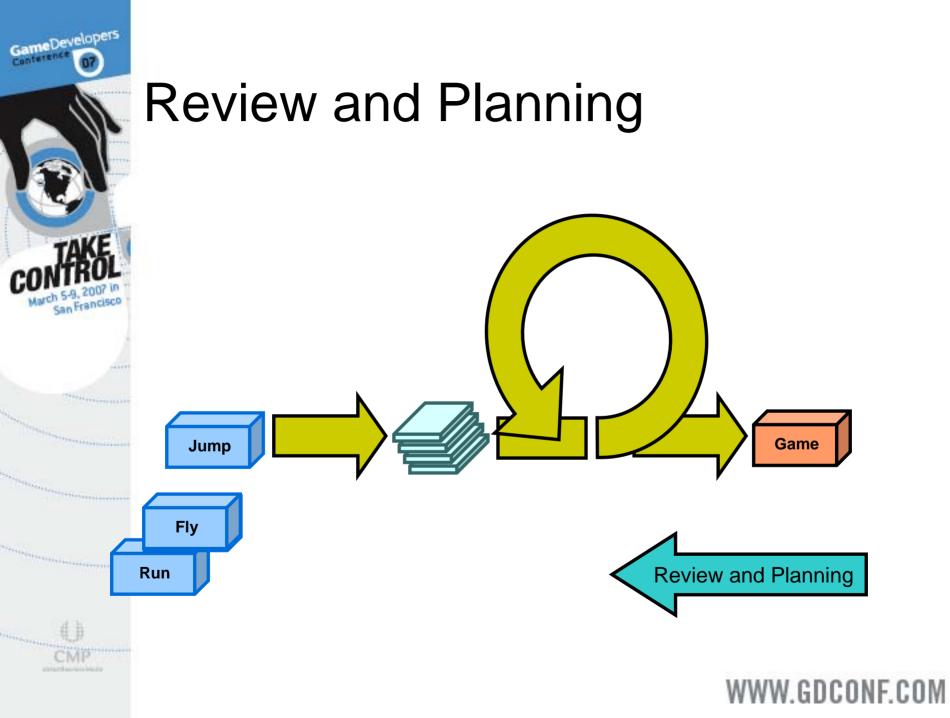
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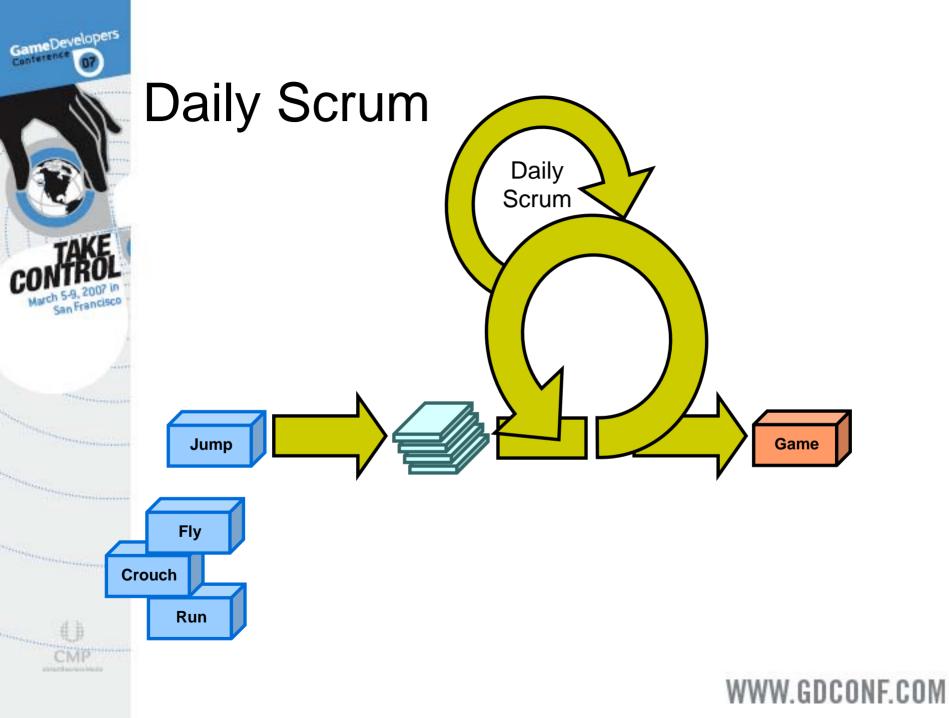


## **Product Backlog**

Product Backlog as prioritized by Product Owner Defined as *User Stories* with conditions of satisfaction Estimated with relative *User Story Points* that help track progress

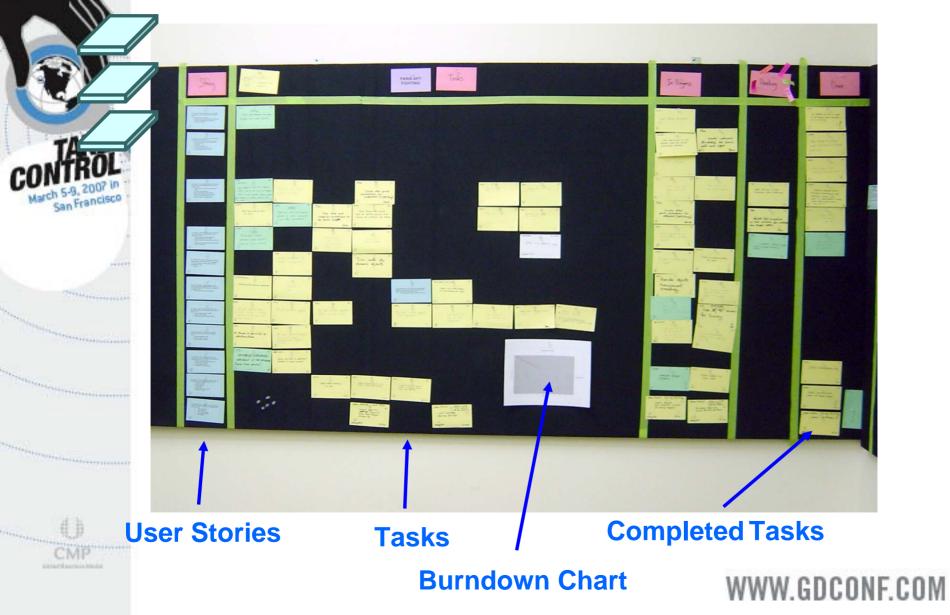




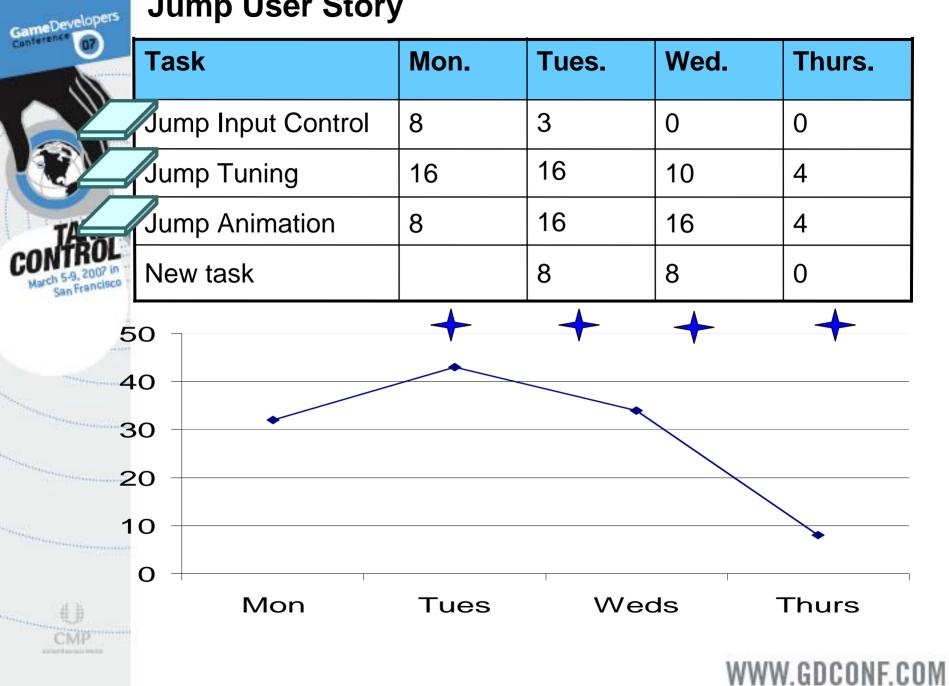


#### The War Room

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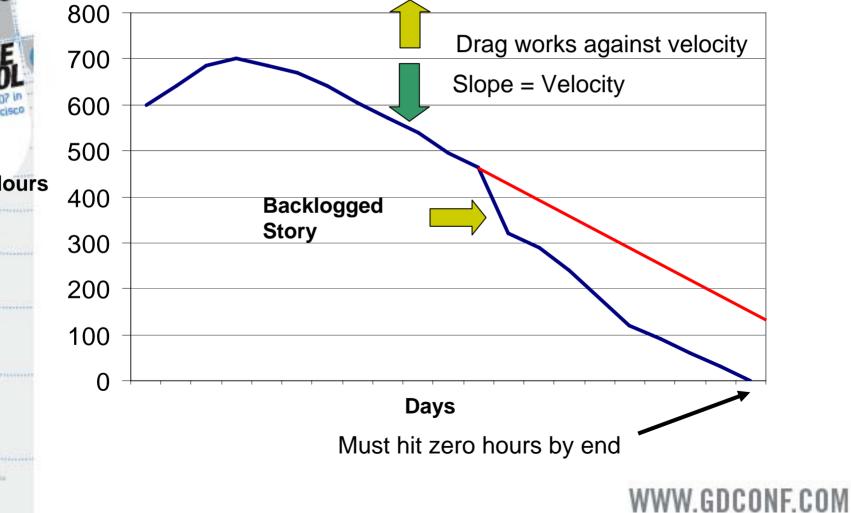


#### **Jump User Story**



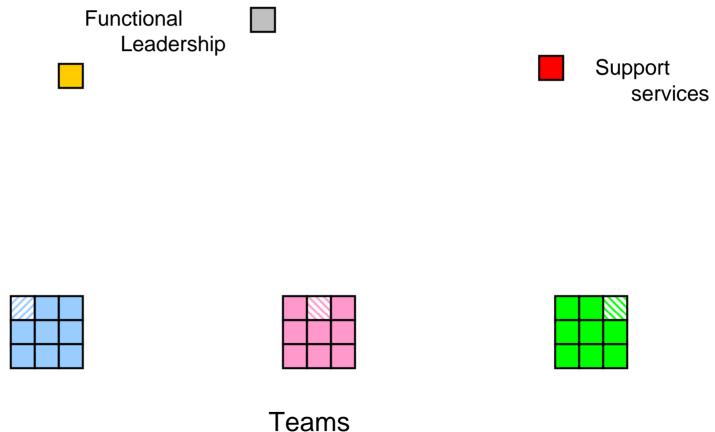


## Sprint Backlog Burndown Chart

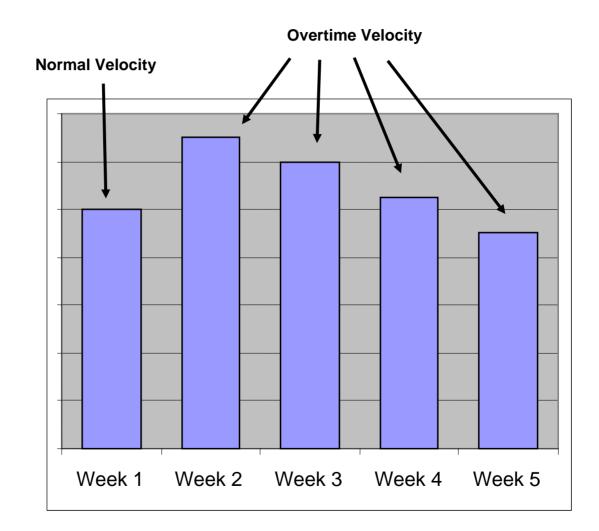




#### Scaling Scrum - The Scrum of Scrums









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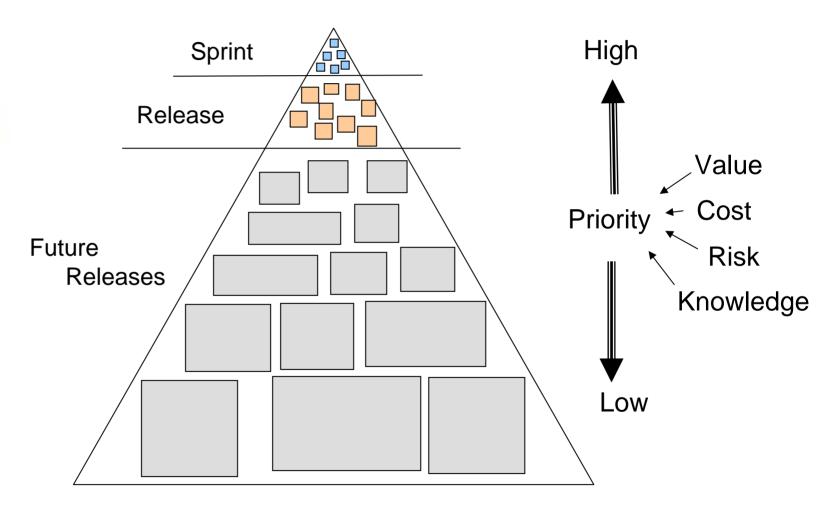
#### Agile Game Development

- Starting agile.
- Benefits
- Issues

Where to go for more info?



#### The Product Backlog Iceberg



#### Lower priority features might get dropped



## **Benefits**

- Improved...
  - Productivity
    - Especially for leads
  - Reliability of build
  - Quality of game
  - Morale
    - Ownership
    - Team work
    - Communication
- Enables low-cost executive awareness
  - Which means you don't have to work hard to find out what's going on
- Makes us constantly see and think about what we are doing. Encourages common sense.



## Not there yet....

- Production is not agile
  - Minimum content required
- Large teams need more leadership
  - Self-organization breaks down
  - Vertical slices are hard
    - Debt can sneak in
    - Releases can be mini-waterfalls

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These cause crunch



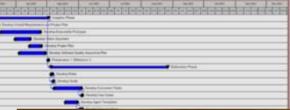
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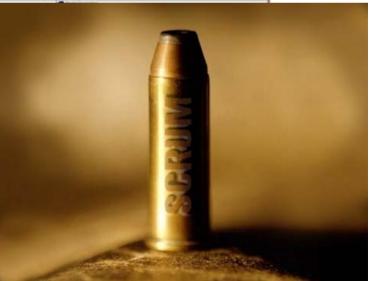
#### Starting agile











# Where to go for more info?

- www.agilegamedevelopment.com
  - Books
  - Mailing lists For Game Developers to share info on adopting Agile
  - AGD Blog Addressing challenges and news on adopting Agile to Game Development

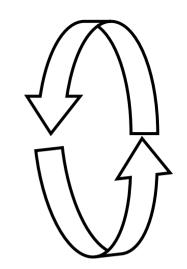
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## Questions?

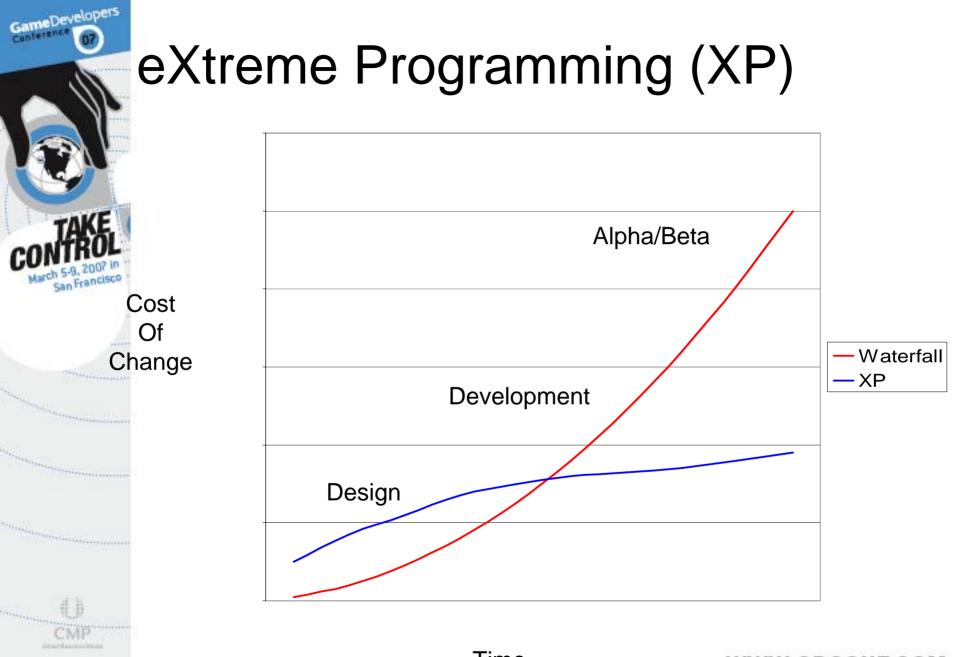


#### Retrospectives

- Mini postmortems
  - Three questions
- Teams per sprint
- Project per release
- Company per quarter







Time

## **Release Burndown**

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