# Canada Vancouver, BC



#### May 12–13, 2009

Game Developers Conference<sup>®</sup> Canada Vancouver Convention & Exhibition Centre

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Advanced Scrum and agile development

**Clinton Keith** 



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# This session

- Applying the "inspect and adapt" principle to the use of agile in making games:
  - What have we learned?
  - What is working?
  - What do we need to stop doing?
  - What do we need to start doing?
  - Real world challenges and solutions





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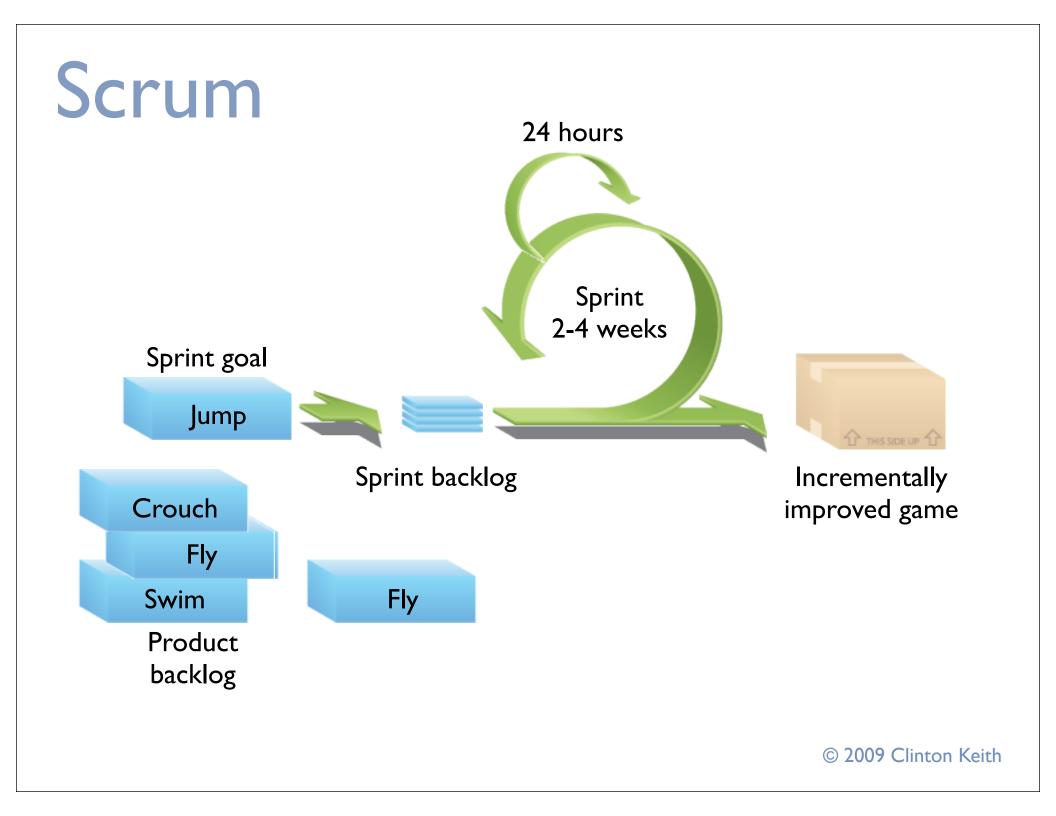


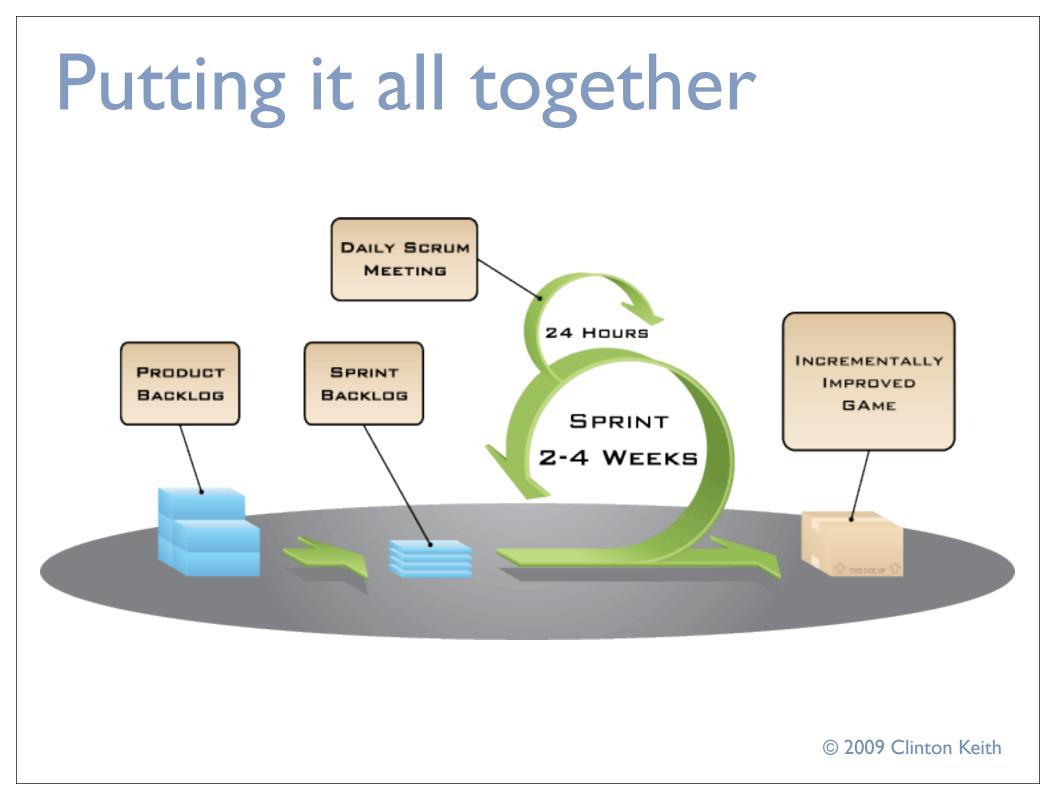
3 minute tour
Challenges & Solutions
Summary
Q&A

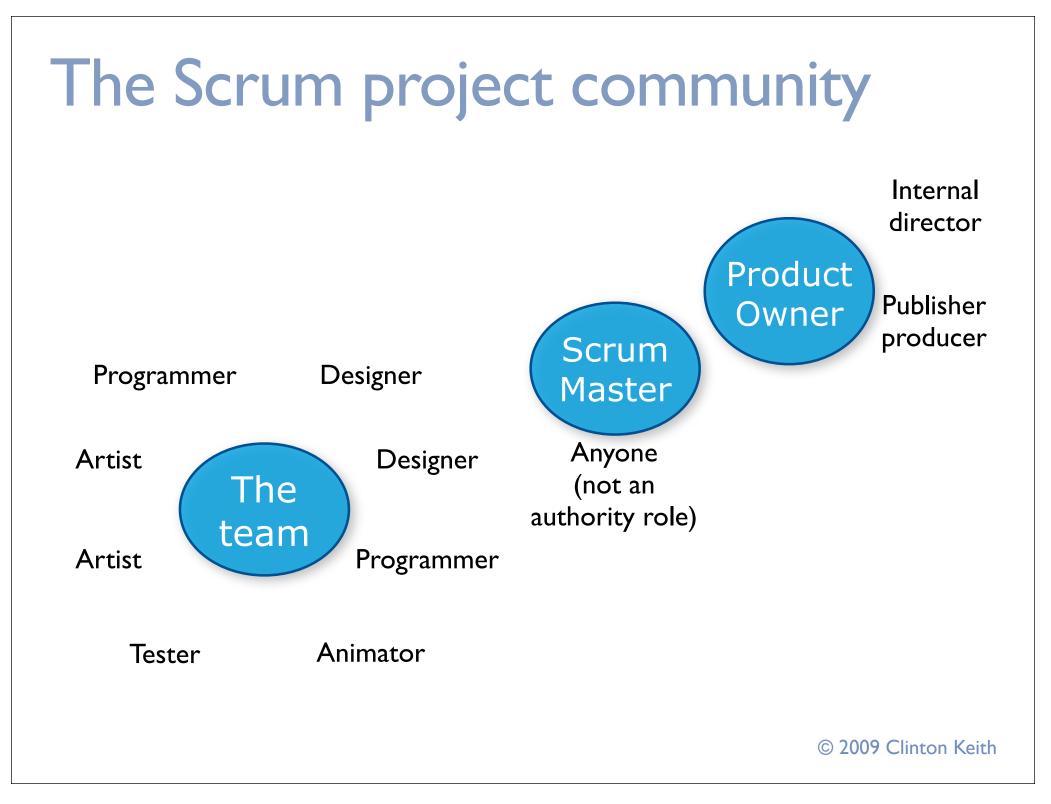
# **G**C Canada A 3 minute tour of Scrum

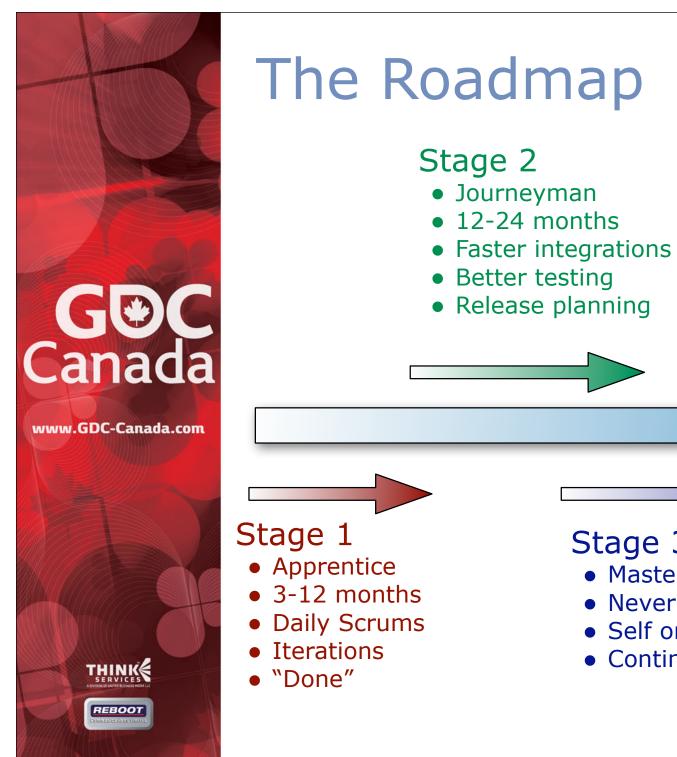


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#### Stage 3

- Master
- Never ends
- Self organization
- Continuous improvement



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#### **Project Leadership**

#### Facilitative / Coaching

#### Directed Management





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# Switching from a push system to a pull system

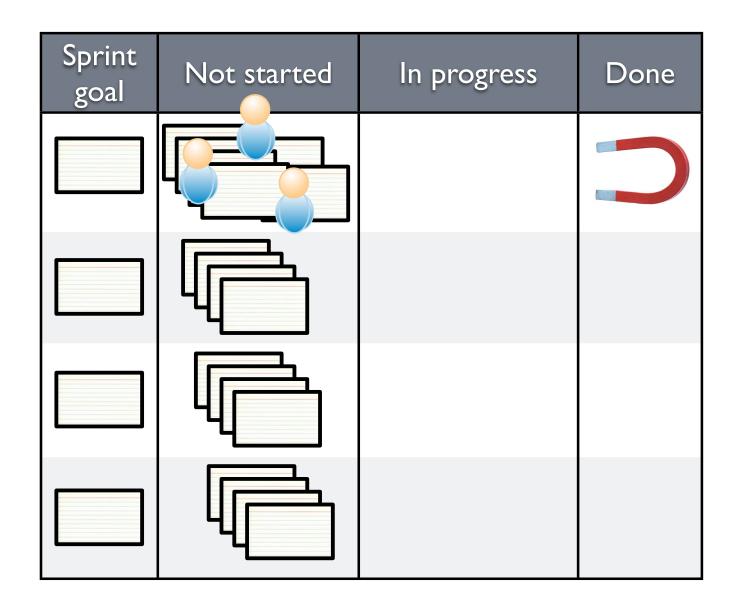
- What is a "pull system"?
- "Pushing" tasks through Scrum
- The challenge of pull systems.
- Defining done

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# Scrum is a pull system



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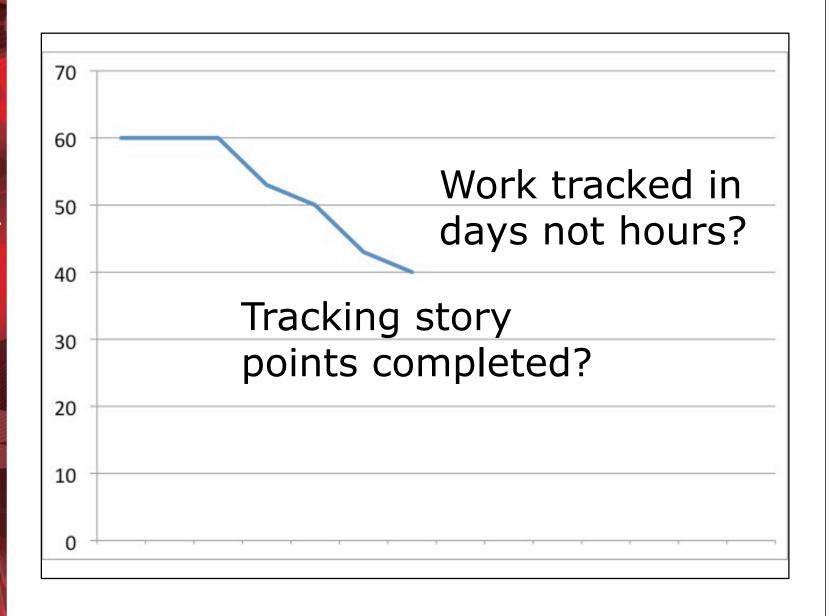
# Why a pull system?

- "Done" is the goal, not task completion
- Creates a "real" pace
  - Minimizes debt
- Allows true velocity to be measured
  - Velocity is a better measure than progress against a schedule
  - Focuses on what is "on the screen", not progress against a schedule
  - Reality vs "the plan"





# Burning down hours?



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#### "Pushing" tasks through Scrum

Sprint goal	Not started	In progress	Done

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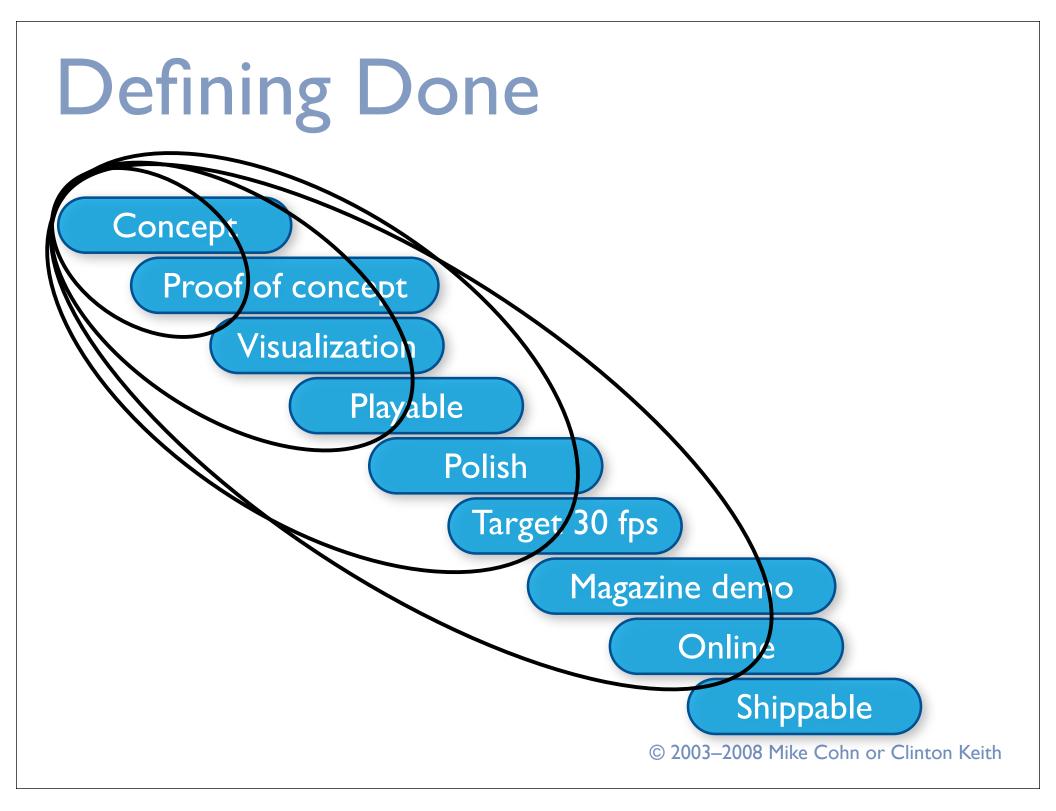
# Pushing tasks in Scrum

- Task completion is the goal
- Goals often left incomplete
  - Bugs
  - Missing, yet unstated, requirements
- Velocity is slower
  - Collisions at the end of the sprint
  - More multi-tasking
- Symptoms
  - Mini-crunch every sprint
  - Very few iterations on the sprint goal
  - Not much polish

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The challenge with moving to a pull system in Scrum

- Over reliance on tools
  - Daily scrums are not status reporting meetings
- "Over managing" the team
  - Let the team manage the tasks (i.e. the path to achieving the goal).
  - Help them make the right decisions
- Teams not taking ownership or making commitments
  - Common for teams new to Scrum
- Defining "done"



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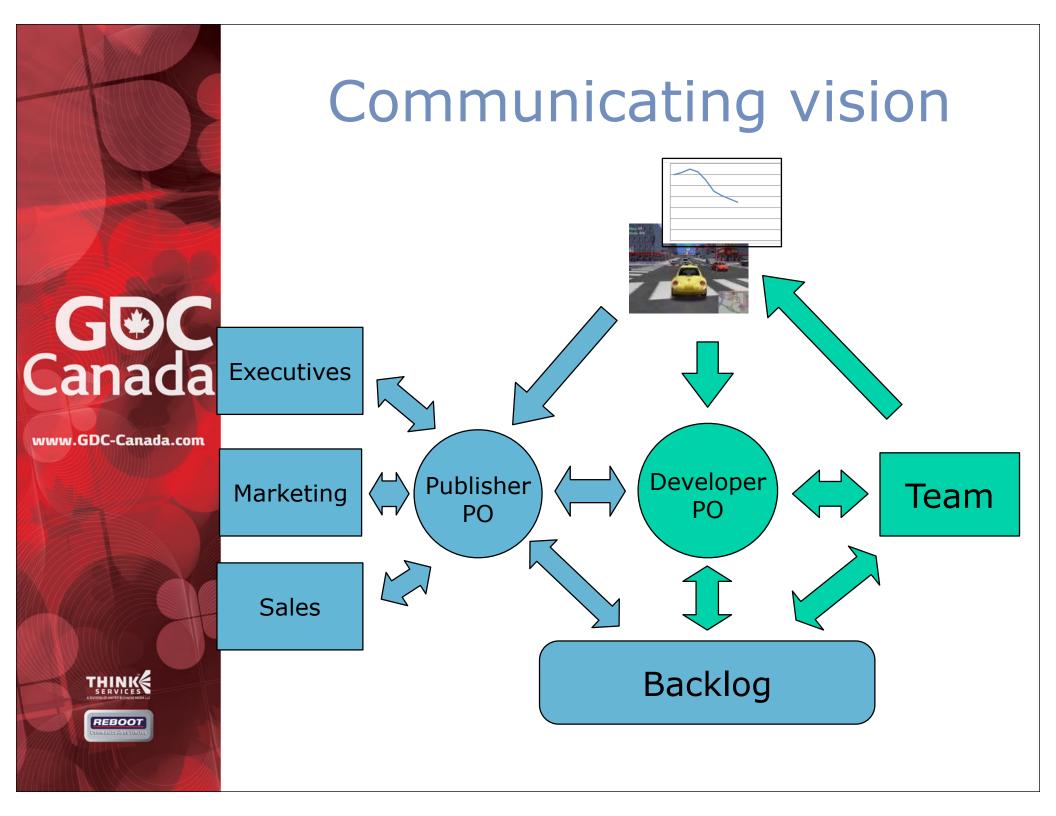
## The product owner



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## The product owner

- Represents the customers
- One voice, even if not one person
- Usually an
  - Internal Director
  - Publisher Producer
    - Supplement with someone onsite
- Main responsibility is knowing what to build and in what sequence



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#### Parts on the garage floor



Leads to iterative and incremental death marches

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#### Documentation has its place





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# Agile phases for game development

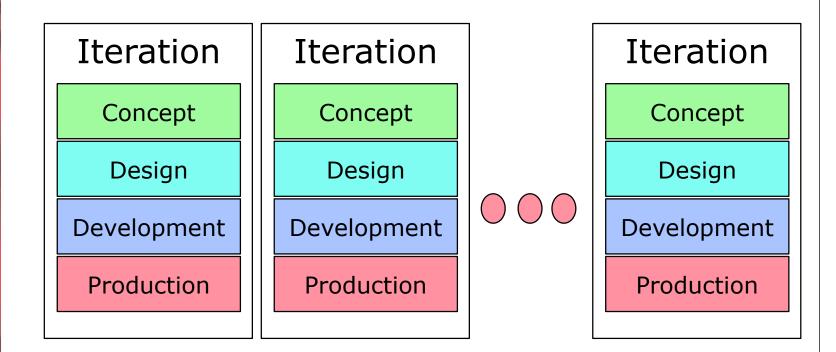




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## Agile is phase-less



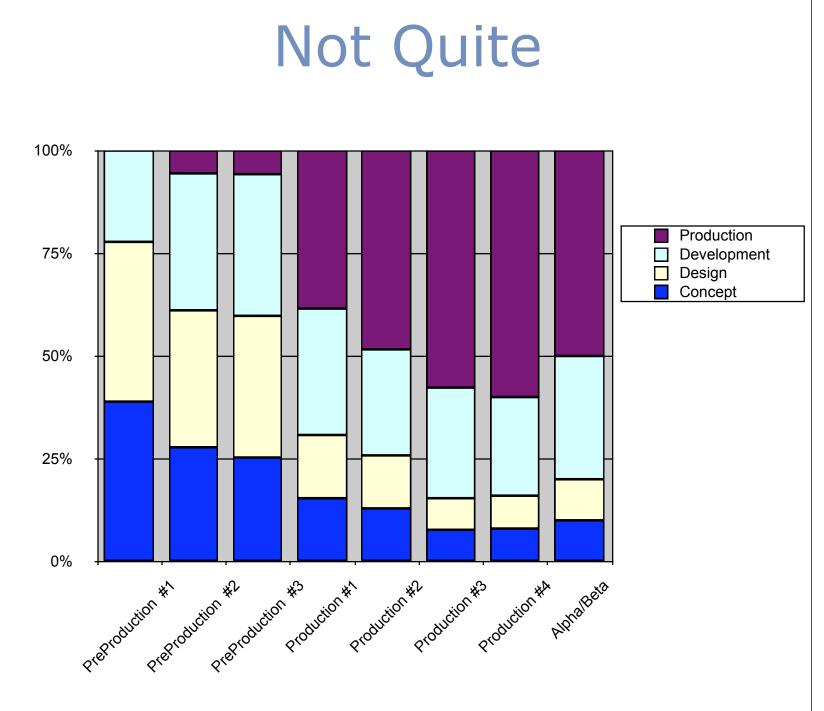
#### ... is game development?



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#### **Preproduction vs Production**

	Preproduction	Production
Questions or Statements	What and how?	Build it!
State of mind	Collaboration	Flow
Goals	Correctness	Efficiency



# Which process? Scrum Lean What and how? Build it! Collaboration Flow Efficiency Correctness

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# What is Lean?

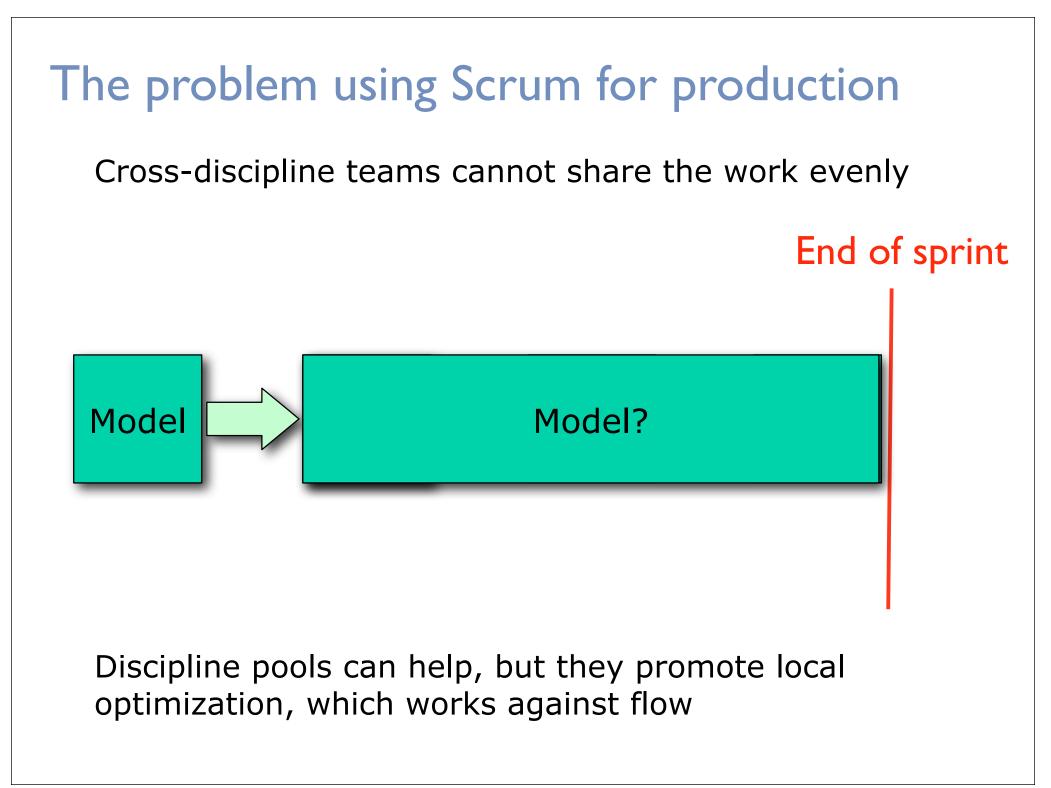
- Agile development methodology that is not as well known as Scrum.
- Focused on complex flow of work and pull systems to represent that flow.
- Are better suited to more predictable work-flow.

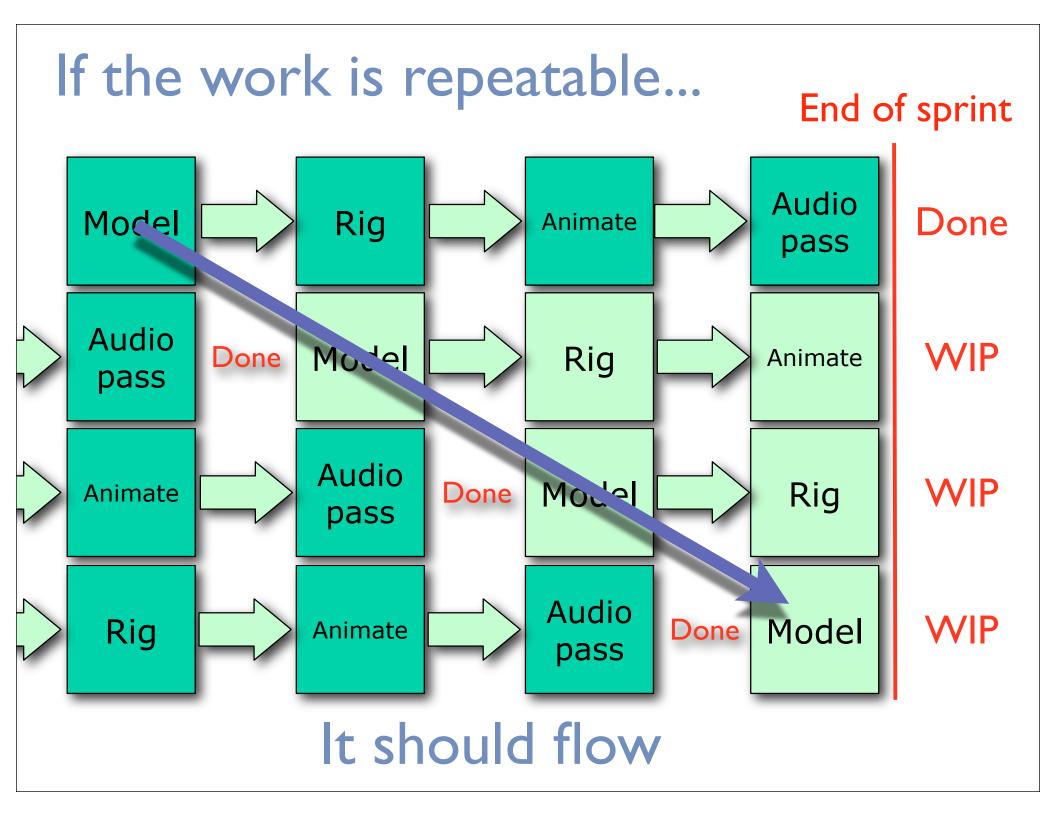
#### The problem using Scrum for production

Scrum does not represent multi-step workflow transparently.

Audio Rig Model Animate pass Audio Rig Animate Model pass Team fails to achieve goal.... all work-in-progress (WIP)

End of sprint

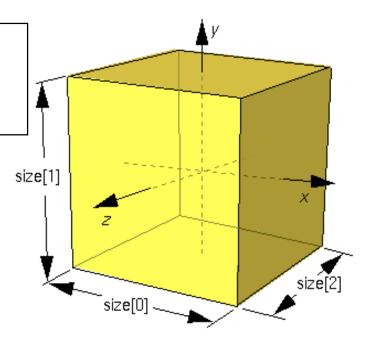






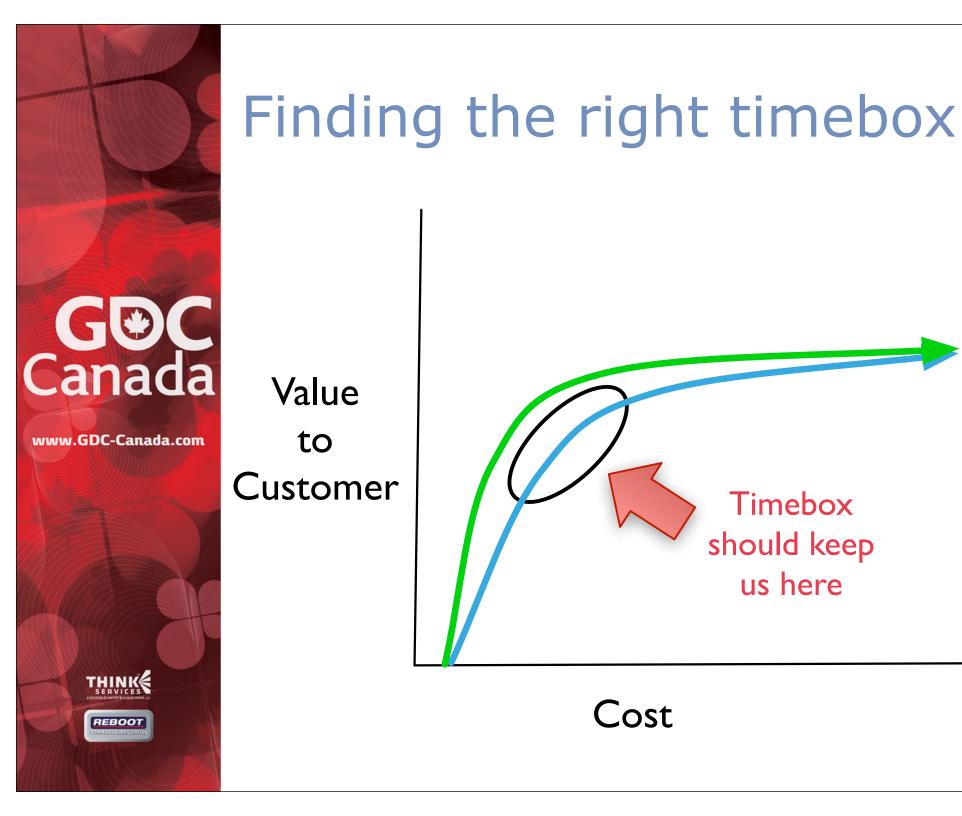
## Time-boxing Art

A time-box is a fixed length of time given to produce results. The results are variable.



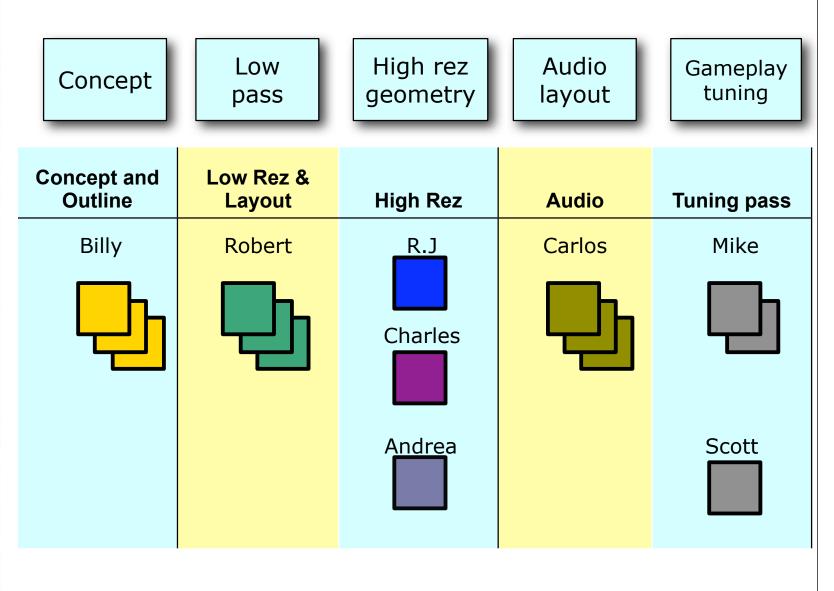
"When forced to work within a strict framework the imagination is taxed to its utmost-and will produce richest ideas. Given total freedom the work is likely to sprawl."

-TS Eliot





### Kanban Board





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ΤΗΙΝΙ

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3 minute tour
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# Real world experiences

- Scrum teams experience less crunch, especially at postalpha
  - If they establish a definition of done & share a vision
- Scrum game teams can miss release dates
  - #I reason: production debt
- Lean is a better fit for production
  - It's compatible with Scrum
- Success is not determined by agile
  - Vision
  - Talent
  - Teamwork
  - Leadership

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#### Agile Game Development book

- Fall 2009 release
- ISBN 0321618521
- Currently in 2nd draft
- Want feedback
  - See me after

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# Conclusion

#### For more information

#### www.AgileGameDevelopment.com

- www.ClintonKeith.com
  - Onsite workshops
  - Public classes
  - Coaching
  - Info up front
- CSM class with Mike Cohn in Boston
  - May 6-7
- Questions?