Canada Vancouver, BC



May 12–13, 2009

Game Developers Conference[®] 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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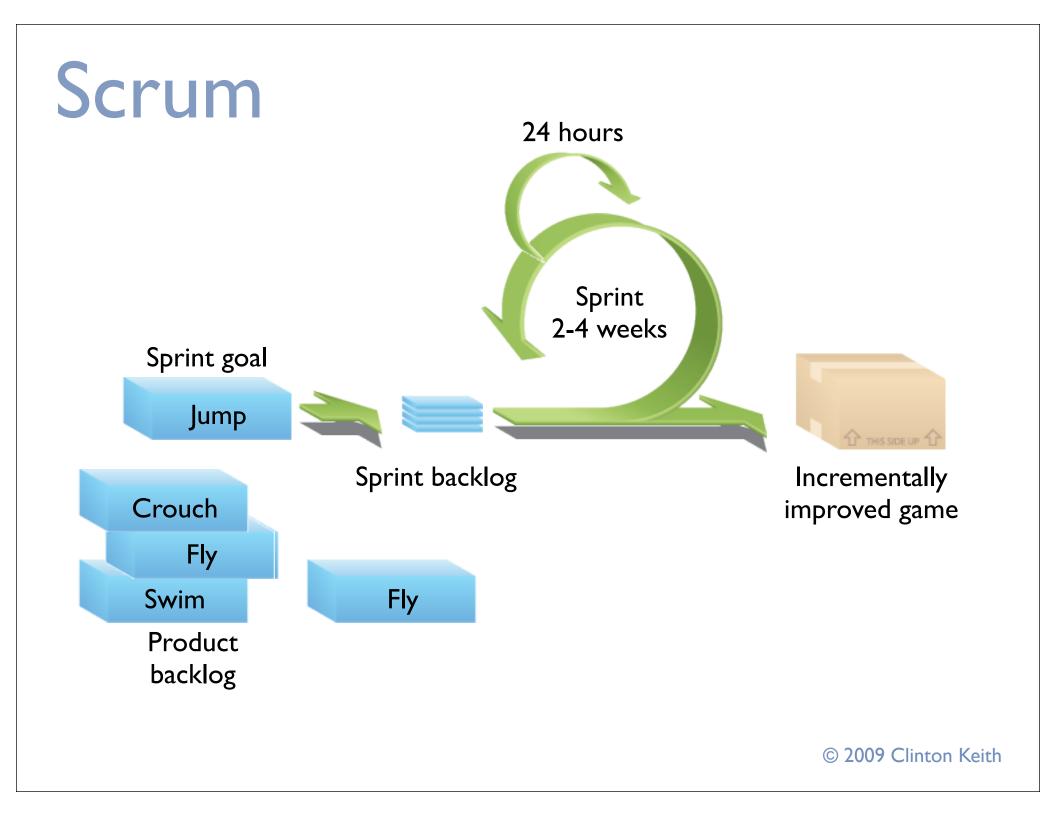


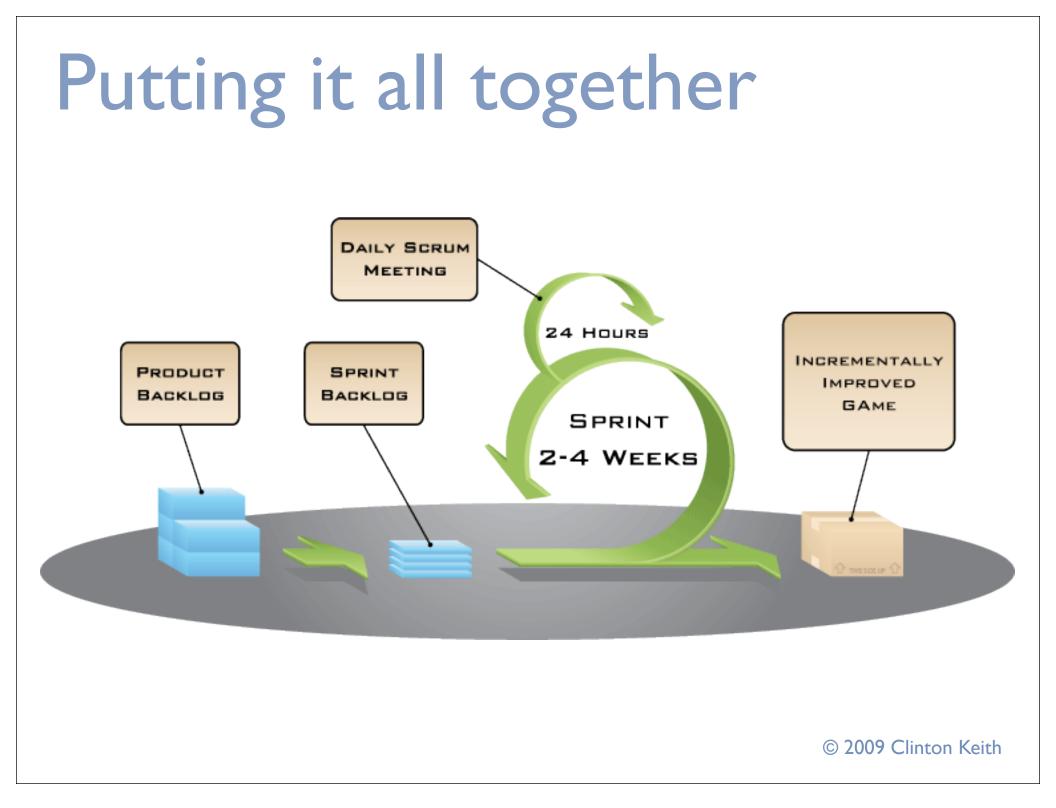
3 minute tour
Challenges & Solutions
Summary
Q&A

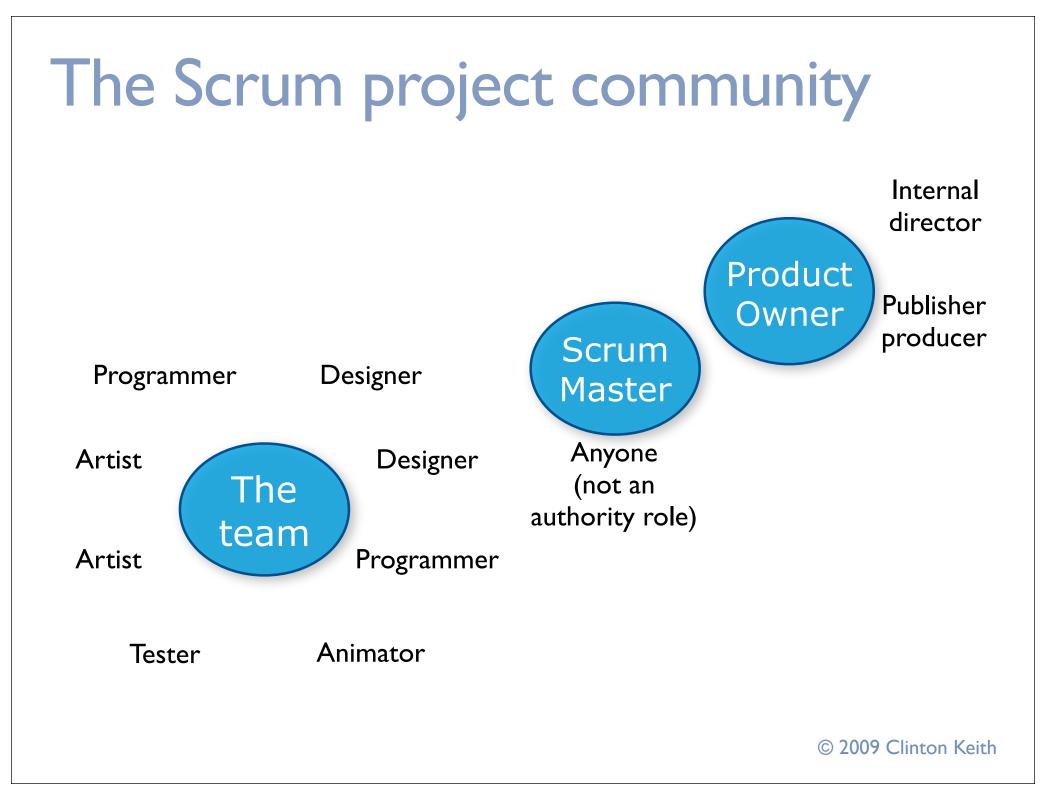
GC Canada A 3 minute tour of Scrum

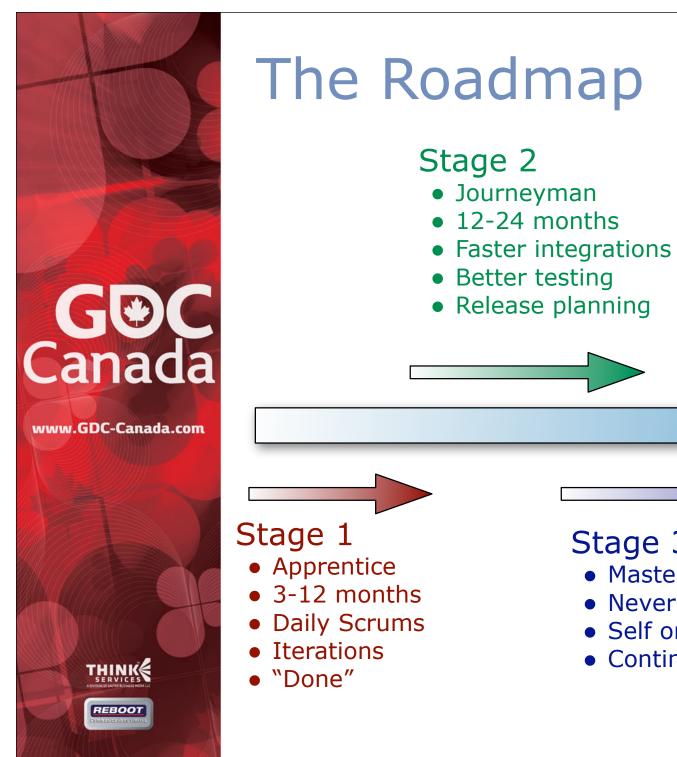


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Stage 3

- Master
- Never ends
- Self organization
- Continuous improvement



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Project Leadership

Facilitative / Coaching

Directed Management





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3 minute tour
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Switching from a push system to a pull system

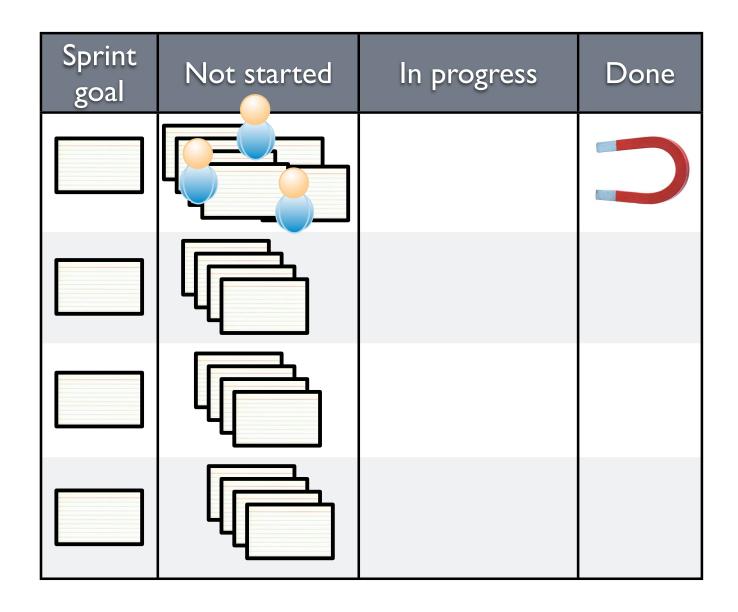
- What is a "pull system"?
- "Pushing" tasks through Scrum
- The challenge of pull systems.
- Defining done

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Scrum is a pull system



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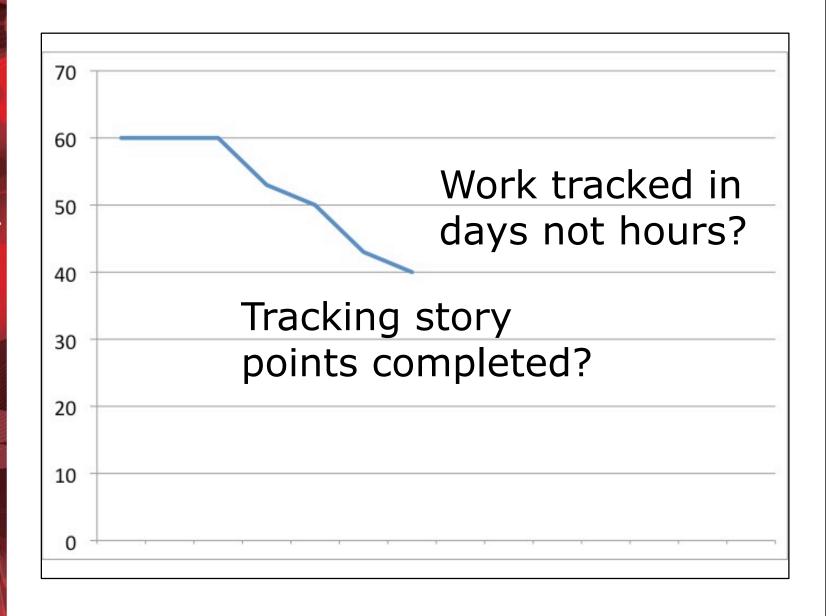
Why a pull system?

- "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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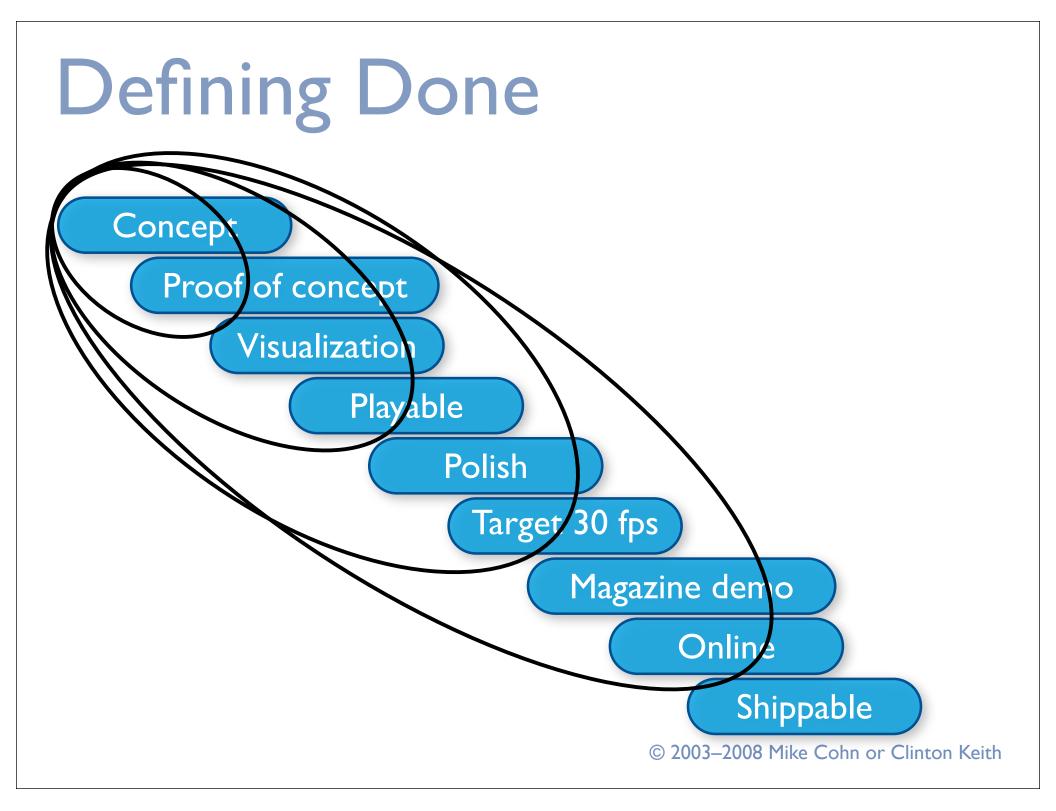
Pushing tasks in Scrum

- 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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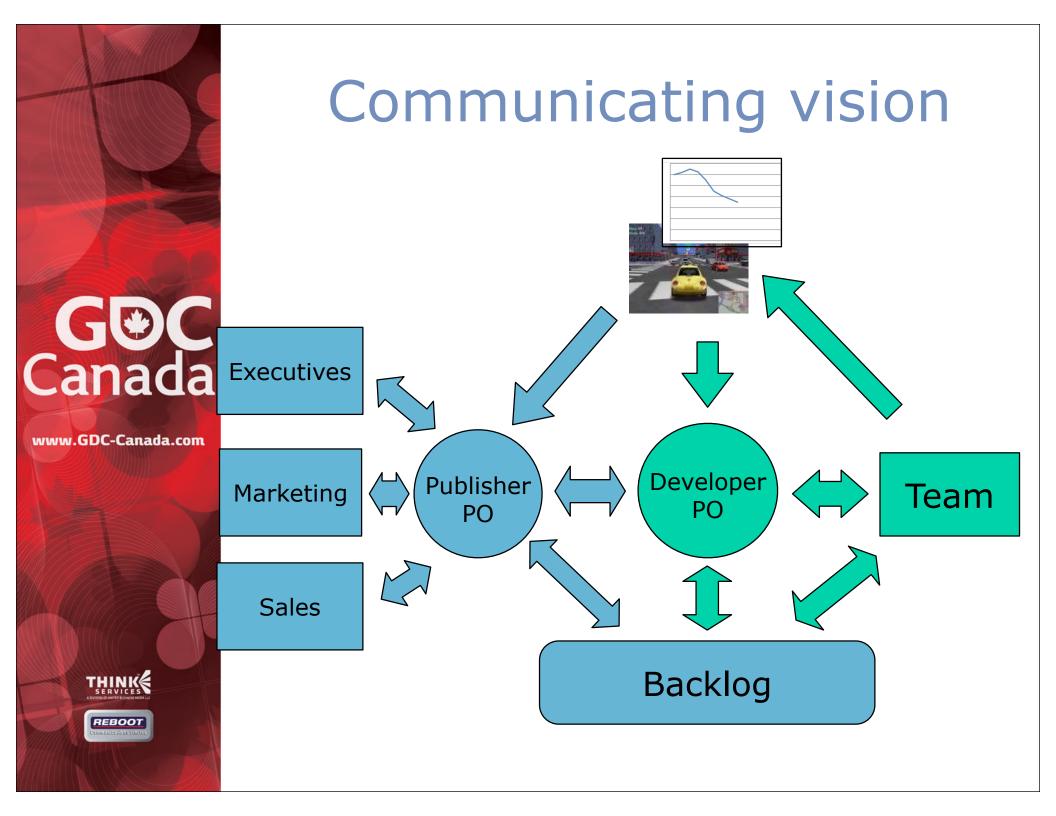
The product owner



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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

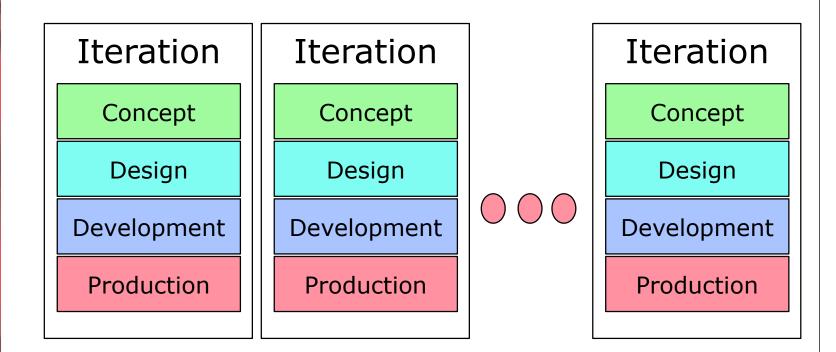




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Agile is phase-less



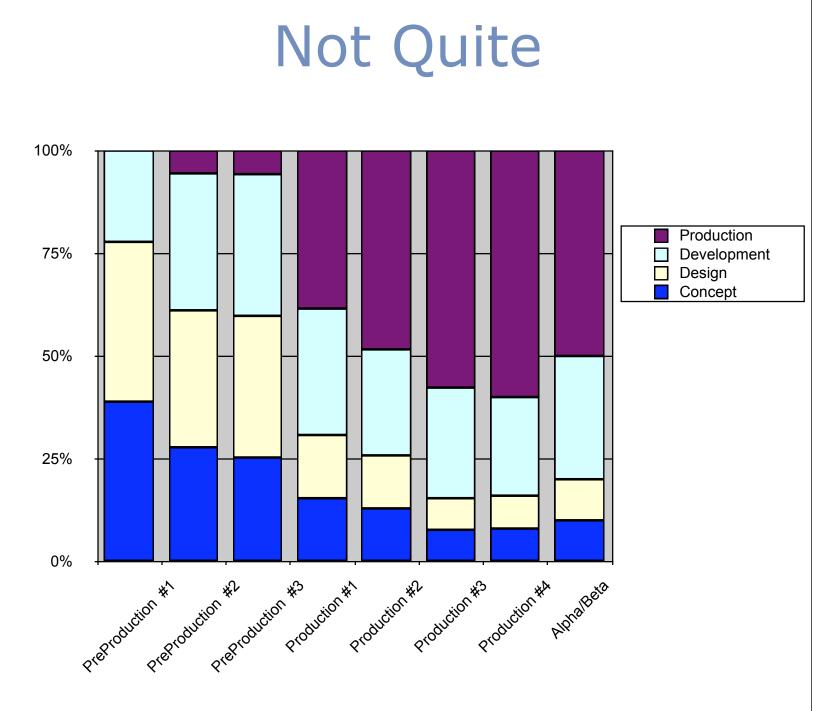
... is game development?



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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?

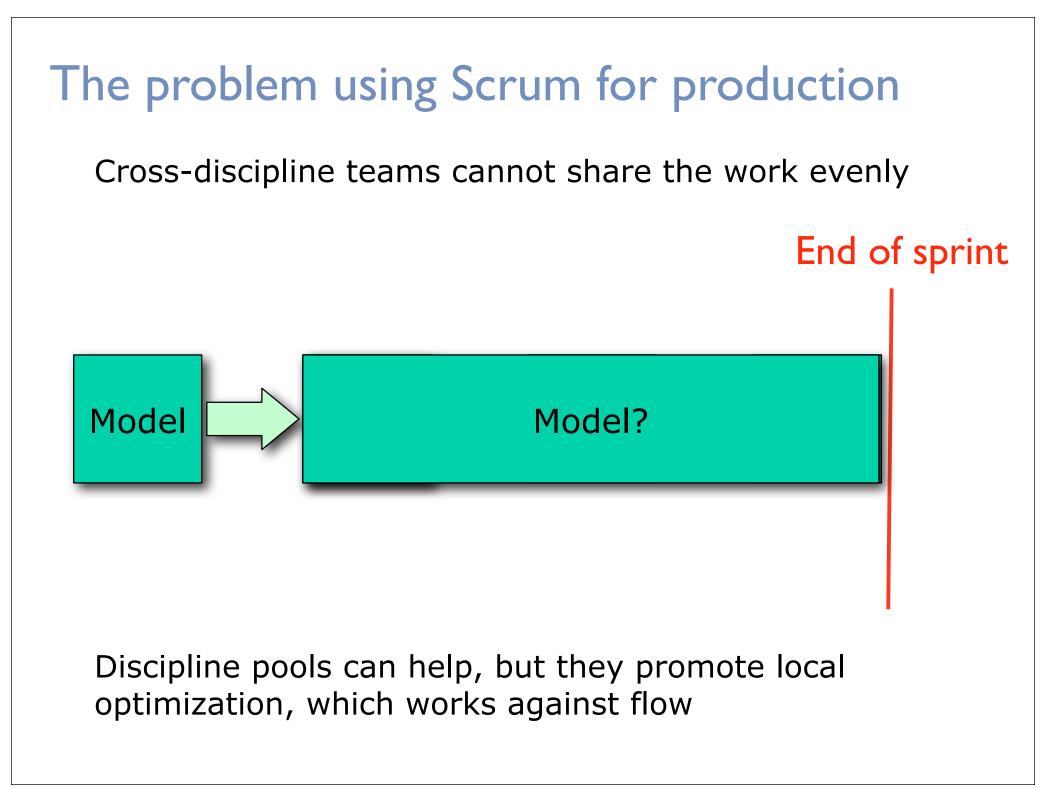
- Agile development methodology that is not as well known as Scrum.
- Focused on complex flow of work and pull systems to represent that flow.
- Are better suited to more predictable work-flow.

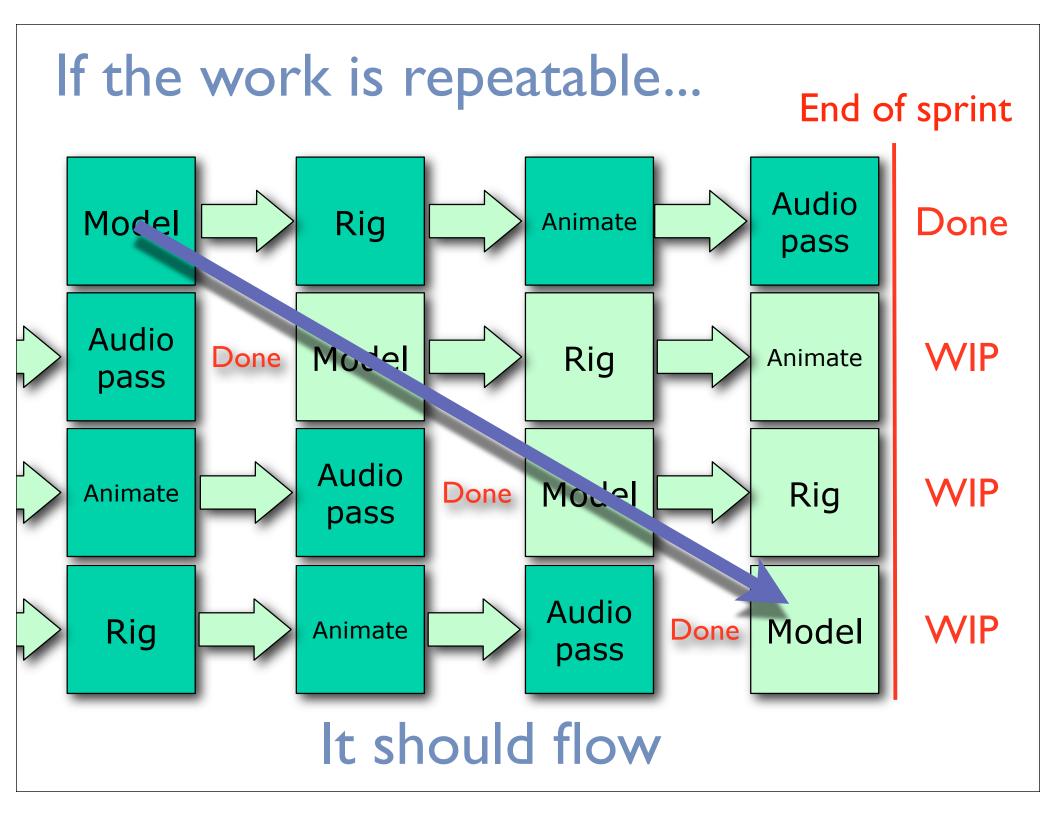
The problem using Scrum for production

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

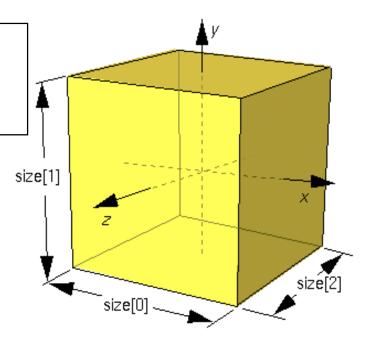






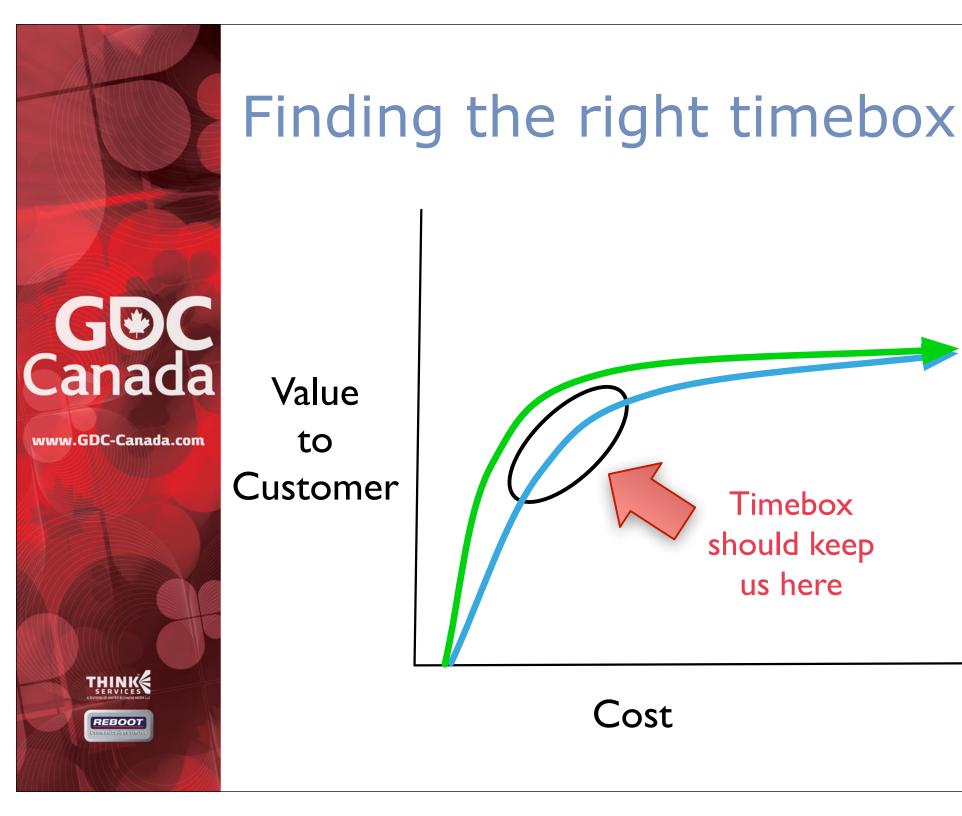
Time-boxing Art

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



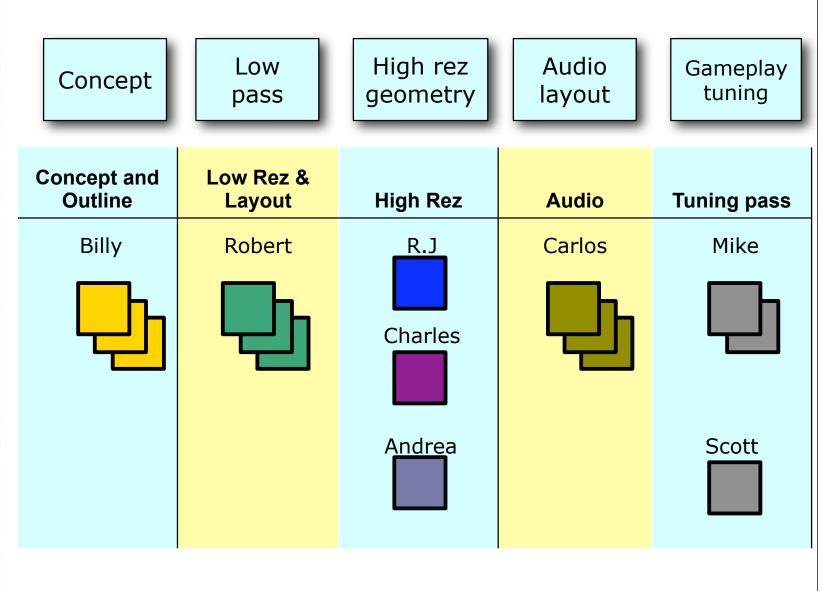
"When forced to work within a strict framework the imagination is taxed to its utmost-and will produce richest ideas. Given total freedom the work is likely to sprawl."

-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?