



Many reasons to use metrics

- Measure progress, get context
 Show management
- Hindsight on issues (past)Fast feedback

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13

Planning/Progress • Measure progress, get context • Show management (14) Pipelinedriven.org @royosherove (f) (in) 🕑

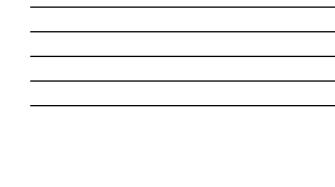
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 Predict issues
 Hindsight on issues
 Fast feedback
 ImmeSpent Manual Testing Cound of Faking Bug in Deveroid Cound of Fa



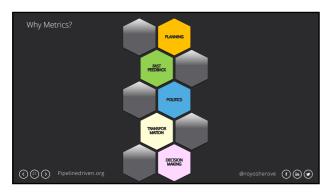






Learning Organization
 Measure progress, get context
 Know when we're done
 Predict issues
 Hindsight on issues
 Fast feedback
 Show management
 Convince management
 Avoid management
 Influence Behavior
 Make a decision about next
 experiment

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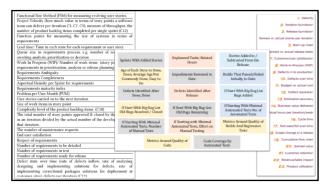




21

WHICH ONES SHOULD WE USE?

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23





What is the decision this metric is supposed to support?
–i.e "what is your dilemma?"

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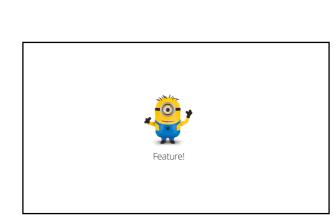


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Continuous Delivery	
Some Objectives	Dilemmas
 Increase (not hurt) quality Increase speed Teach skills to people 	 Which things to automate? Which bottlenecks to remove? What skills to learn? What team structures to use? What type of process to use?
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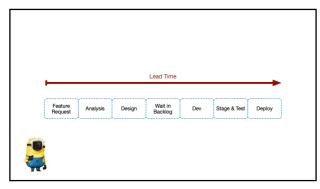


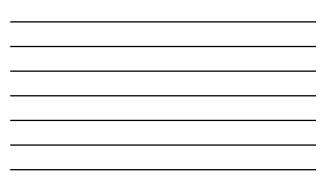


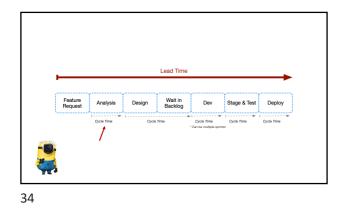




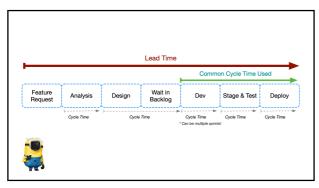




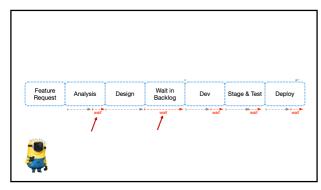






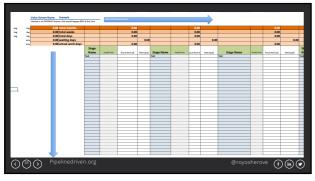
















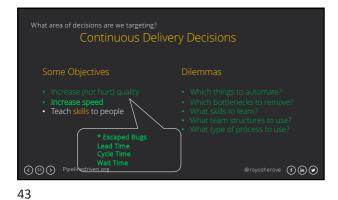














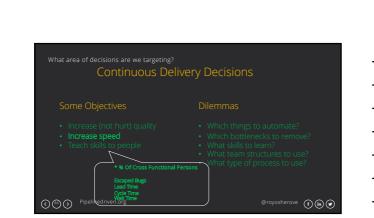








 Image: Code Coverage
 # Automated tests
 # Build run time
 # Pairing sessions (Qa+dev)

 # Stuck Tasks
 # Demos
 # Unplanned Work
 # Build Time

 # Time Red-to-Green
 # Deploy
 # Prod Feature Flags
 # Deploys

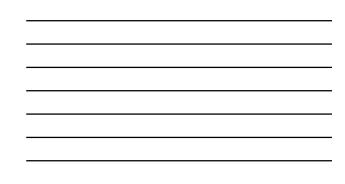
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Leading vs. Lagging		
Leading	Lagging	
 Inputs We have direct control Fast feedback 	Outputs (outcomes) No direct control	
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Leading vs. Lagging		
Leading	Lagging	
Amount of Calories per da Exercise time per day Food composition (%carbs		
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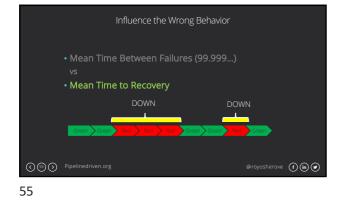


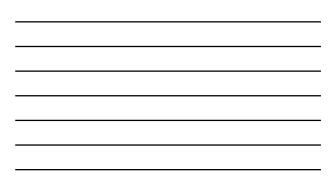


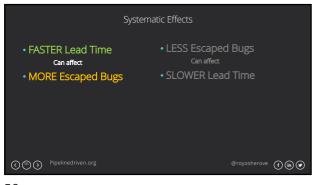




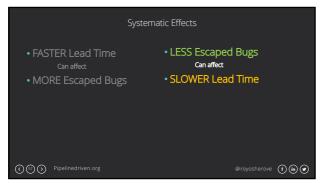






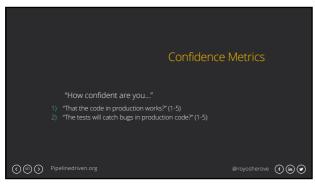


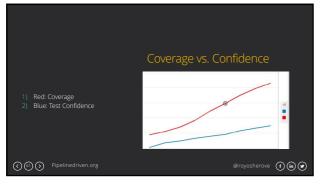
















- Coverage
- Amount of Green Builds
- Amount of Tests

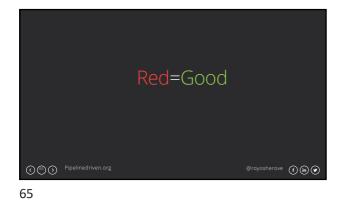
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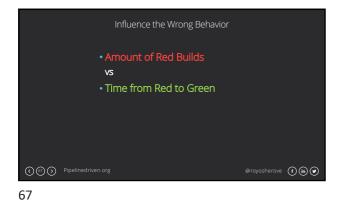




 Red=Good

 Red that stays Red = Problem

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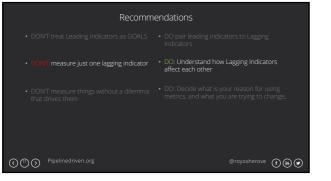


Time from first red to first green ("red to green") R2G R2G R2G R2G COMPONING COMPONIN

68



Recommendations		
DONT treat Leading Indicators as GOALS	 DO pair leading indicators to Lagging Indicators 	
	 DO: Understand how Lagging Indicators affect each other DO: Decide what is your reason for using metrics, and what you are trying to change. 	
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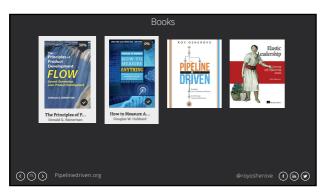




Recommendations		
 DOWT treat Leading Indicators as GOALS DOWT measure just one lagging indicator DOWT measure things without a dilemma that drives them 	 DO pair leading indicators to Lagging Indicators DO: Understand how Lagging Indicators affect each other DO: Decide what is your reason for using metrics, and what you are trying to change. 	
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11/21/19



