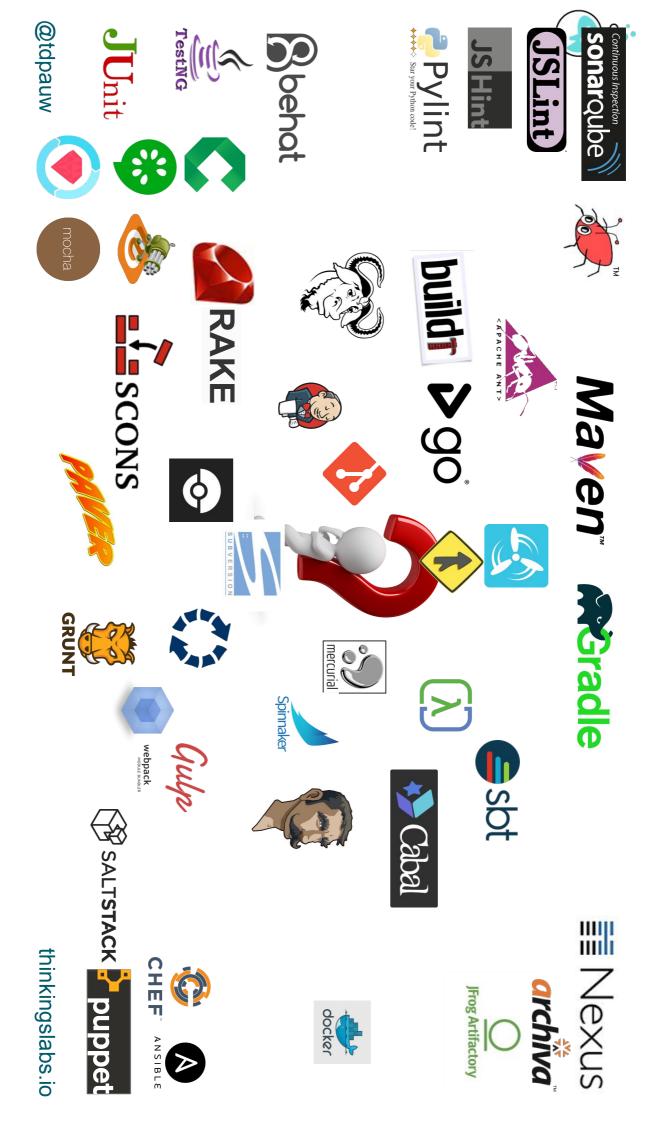


#### more than just Tooling Continuous Delivery is Thierry de Pauw, @tdpauw **ITAKE Unconference 2016** It's a Culture



what do most people think about ? When speaking about Continuous Delivery







# **Continuous Delivery** is NOT just tooling. It is a **mindset** to adopt.

@tdpauw

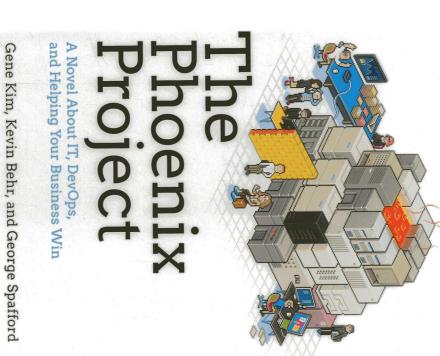


The goal of Continuous Delivery is

to sustainably minimise the lead time to create positive business impact.

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## **The Phoenix Project**

The Principle of the 3 Ways

Strategies for improving Software Delivery

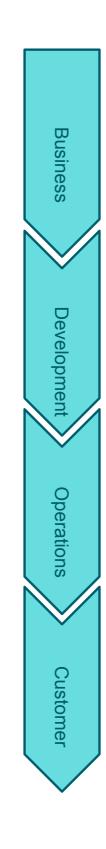
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Maximise the flow of the software delivery process.





kingLabs



## Repeatable and reliable process for

delivering software.

- This means
- automate the hell out of it,
- and everything under version control.

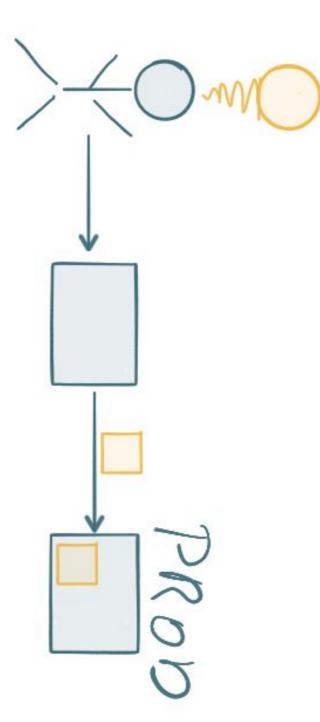


## Encourage collaboration.

@tdpauw



@tdpauw



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Aim for a single piece flow.



- Bigger batches = bigger lead times = money stuck in the system



Smaller batches = reduce risks

- Release process is more often practiced
- Finding out what went wrong is easier
- Rolling back small changes is easier



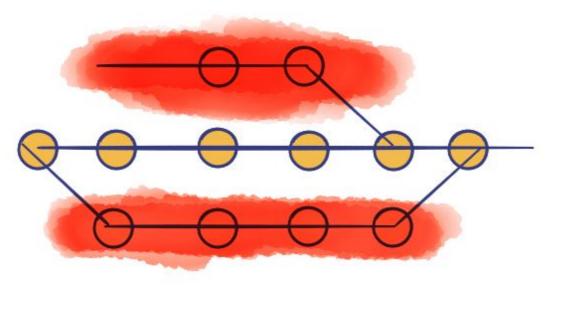
#### releasable state on main line. Your application is always in a

Every build is a release. Software with unfinished work can still be releasable. Ready for release does not mean actually releasing.



## **Trunk Based Development**

- Make changes incrementally
- Hide unfinished work
- Branch by Abstraction
- Feature Toggle as a last resort





@tdpauw

-- Dave Hounslow (@thinkfoo), You Are What You Eat, Pipeline Conf 2016

Agile" Continuous Delivery and Trunk Based Development is "Being

Feature Branching is "Doing Agile"



@tdpauw

Creating feedback loops at all stages of the pipeline.

#2 - From Right to Left



kingLabs



## Whenever something fails, stop the production line.

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#### not testing it in later. Build quality into the code from the start,

- 2 kinds of inspections
- Inspection after the defect occurred
- Inspection to prevent defects

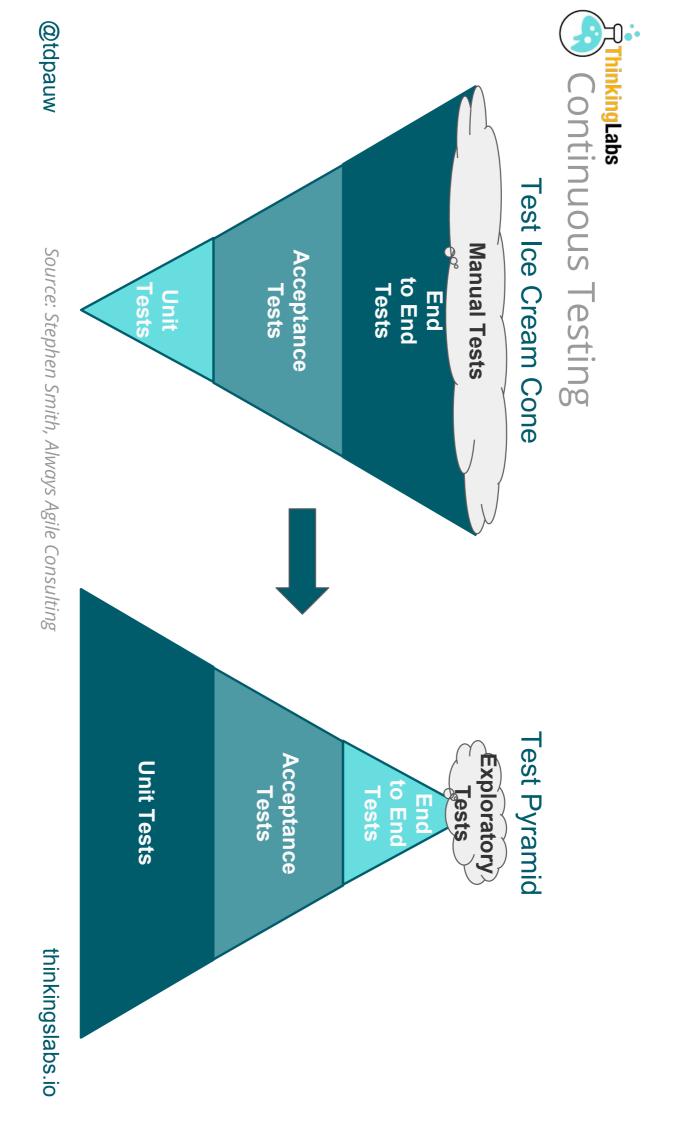


### Testing is not a phase,

it is part of your development process.

Everybody is responsible for the quality.

@tdpauw





#### this crazy focus on Quality. Continuous Delivery works because it has

@tdpauw





# #3 - Creating a culture of improvement



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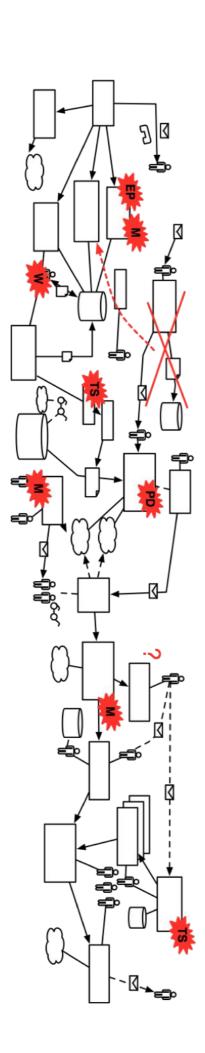


one night. Your delivery pipeline will not come over

process. everybody involved in the software delivery Instead have regular retrospectives with

Source: Damon Edwards, DTO Solutions

@tdpauw





## Make use of the Value Stream Map.

Identify wastes and bottlenecks.



"Spending time optimising anything other than the critical resource is an illusion."

-- W. Edwards Deming



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Repetition and practice leads to mastery.

#### If it hurts, do it more often. Bring the pain forward.

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#### Conclusion

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#### gets you to lower costs Optimising for throughput and for speed and higher quality.

quality got you neither. Where in the past optimising for cost and



Continuous Delivery is not easy nor cheap !

It is a cultural change.

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# Hello, I am Thierry de Pauw, @tdpauw

Full Stack Software Engineer

Agile Technical Coach

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