Achieve Technical Excellence In A Software Organisation

Berne, 10 March 2021
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Why Does Technical Excellence Matters?

"…because all of its stuff we are talking about (digital transformation and all the rest of it) doesn't really make any difference unless you can actually deliver technology, get it into production and get things moving." – Martin Fowler
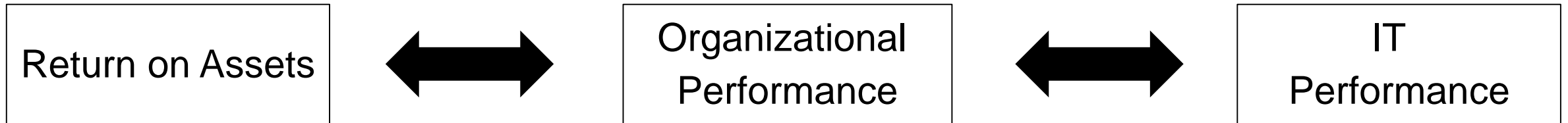
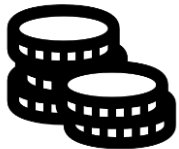Do the right thing

Do it effective and efficient

Do it in high quality

Correlations

| Return on Assets | ⬌ | Organizational Performance | ⬌ | IT Performance |

~ profits

how successfully a group with a particular purpose perform a function

See next slides…

Aspects of IT Performance

3 particular measures:

Deployment Frequency	Deployment Lead Time	Mean Time To Recover
the frequency of deployments	time from code commit to working in prod	how long it will take to get a failed piece of code running again

Cycle Time

Cylce Time

Deployment
Frequency

$+$

Deployment
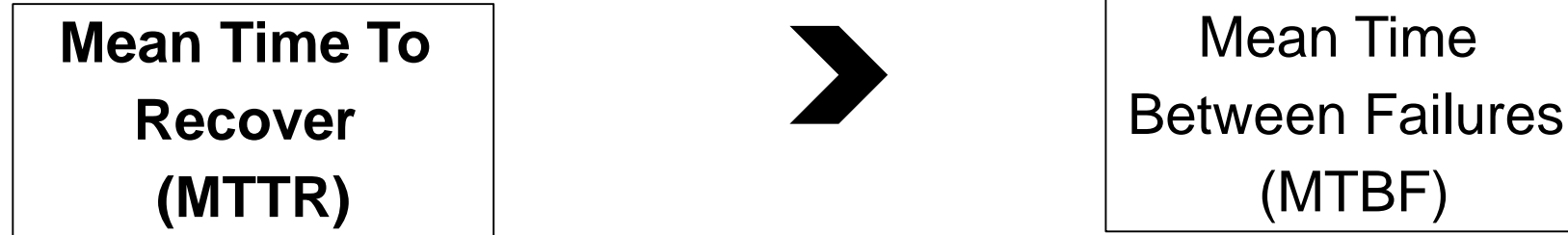Lead Time
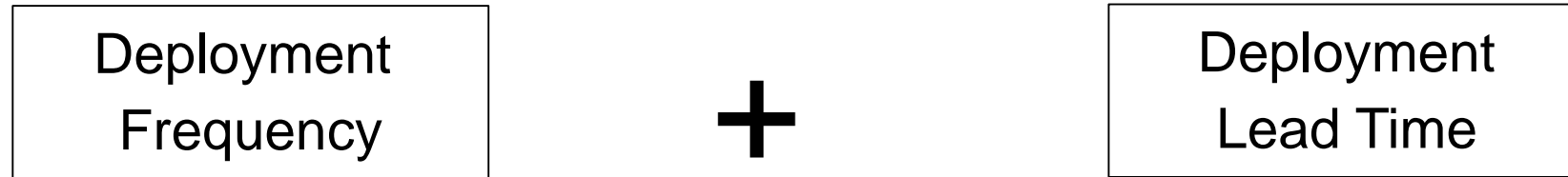
- The time it takes from the idea to the running software in production

- The possibility to gain early information

- Crucial measure

Recover Fast

Mean Time To Recover (MTTR)	❯	Mean Time Between Failures (MTBF)

- By putting stuff into production it is more important
  that you can realize that something is going wrong and fix it (MTTR)
  than to prevent the failures in the first place (MTBF)

- Today most of the organization put a lot of effort in trying to prevent that things go wrong

Continuous Delivery

Version Control		Test Automation
+		
Continuous Integration		Deployment Automation
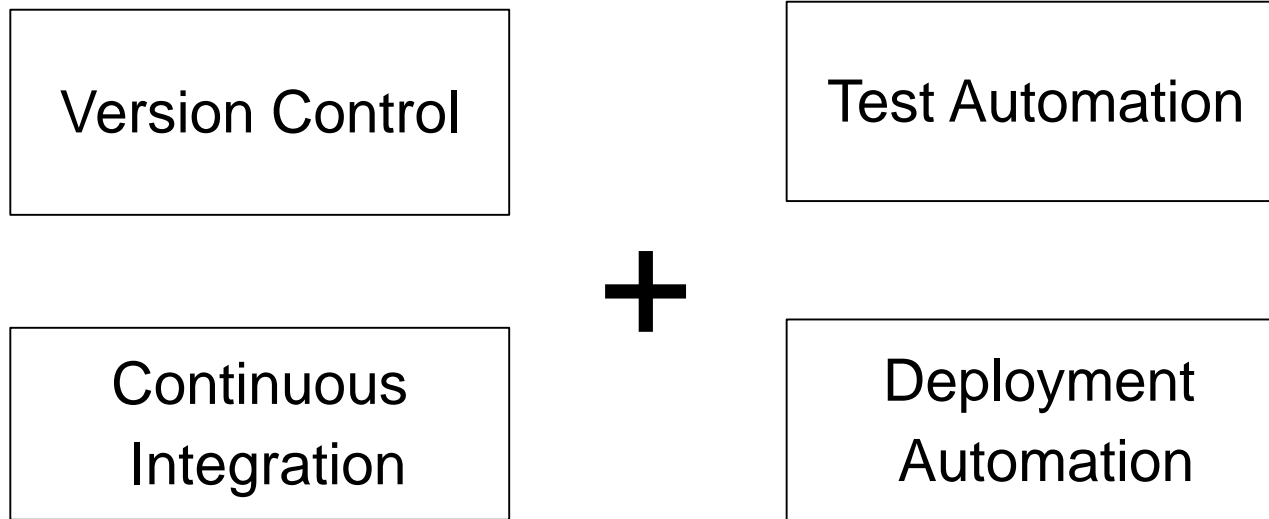
- It is the ability to build software in such a way that you are always able to put the current state of your software into production

- It is a key point to reduce cycle time

Team Setup

Small

Relatively long living

- keep teams together

Business Oriented

- there must be business connectivity
- every team member should have a pass through the customer

Autonomous

- a team should have everything it needs to deliver software to the business
- ownership from UI to database
- connection to their users

Trust

Learning > Blame

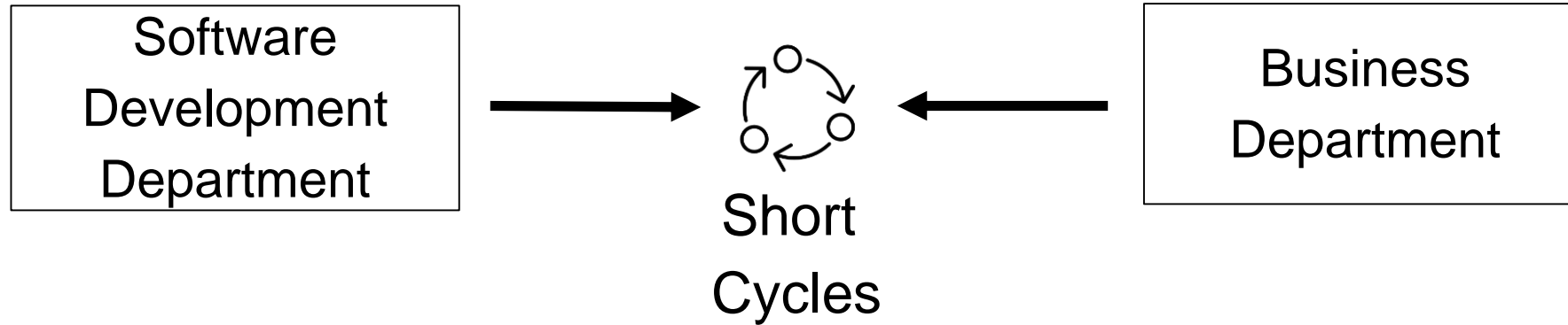Ask for Help
Without Fear

No Toxic People

Share Knowledge

Home for the evening

Integrity
(No Hidden Agenda)

CSS
Versicherung

Excellence On Department Level

Software Development Department	Short Cycles	Business Department

- Understands Business
- Responsible for the software teams
- Responsible for the codebase

- Some Technical Know-How
- Responsible for the direction of travel
- Ideas, Vision

Conclusion

- Software development teams and the business must work together

- Both must understand each other

- Develop in short cycles

- Take care of the health of the team

- Apply agile processes over the entire organisation

- Try to do a better job than the others

- Have fun

CSS Versicherung – INTRAS – ARCOSANA – Sanagate

References

https://www.youtube.com/watch?v=Avs70dZ3Vlk

THANK YOU
FOR **YOUR**
ATTENTION