Tallinn, 4th April 2018

Lean Software Development

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Agenda

- Introduction
- Large software projects
- Lean principles
- Waste
- Lean.equals(Agile)?

1 | Introduction

itestra GmbH

- **itestra GmbH** = **i**nformation **te**chnology and **stra**tegy

- Founded in 2004

- Currently approx.
  65 employees and 15 students

- 7 locations across Europe
  - new: Hamburg & Hannover

- Headquarters in Munich

- In Tallinn since 2008

- Acclaimed specialists for large, business-critical, individual software systems

Tallinn

Hamburg
Hanover
Cologne
Stuttgart Munich

Madrid

München

Service Portfolio

We ensure and reestablish IT efficiency.

Governance & Renovation	• Measurement of software quality and costs • Systems renovation and optimization • Reduced costs and increased value
Solution Engineering	Planning, design and implementation of cost effective, high performance, mission critical IT solutions

Focus area

- **Individual** (aka **custom** or **bespoke**) **software**: software built specifically for a company, tailored to their own needs and requirements (as opposed to commercial off-the-shelf software).

- **Business critical (information) systems**: applications that enable the core business processes of a company, and whose failure can result in high economic losses
  - E.g.: customer account systems in a bank, stock market transactions...

Royal Bank of Scotland fined £56m after software glitch

by Laura Barnes
Thursday, November 20th 2014 at 10:10AM

Royal Bank of Scotland (RBS) has been fined by regulators after a computer glitch in 2012 left millions of customers unable to access their accounts.

The Financial Conduct Authority (FCA) fined the bank £42 million, and the Prudential Regulation Authority fined RBS £14 million.

RBS chairman, Sir Philip Hampton, said the issue had caused 'significant stress for many customers'.

NATIONAL NEWS

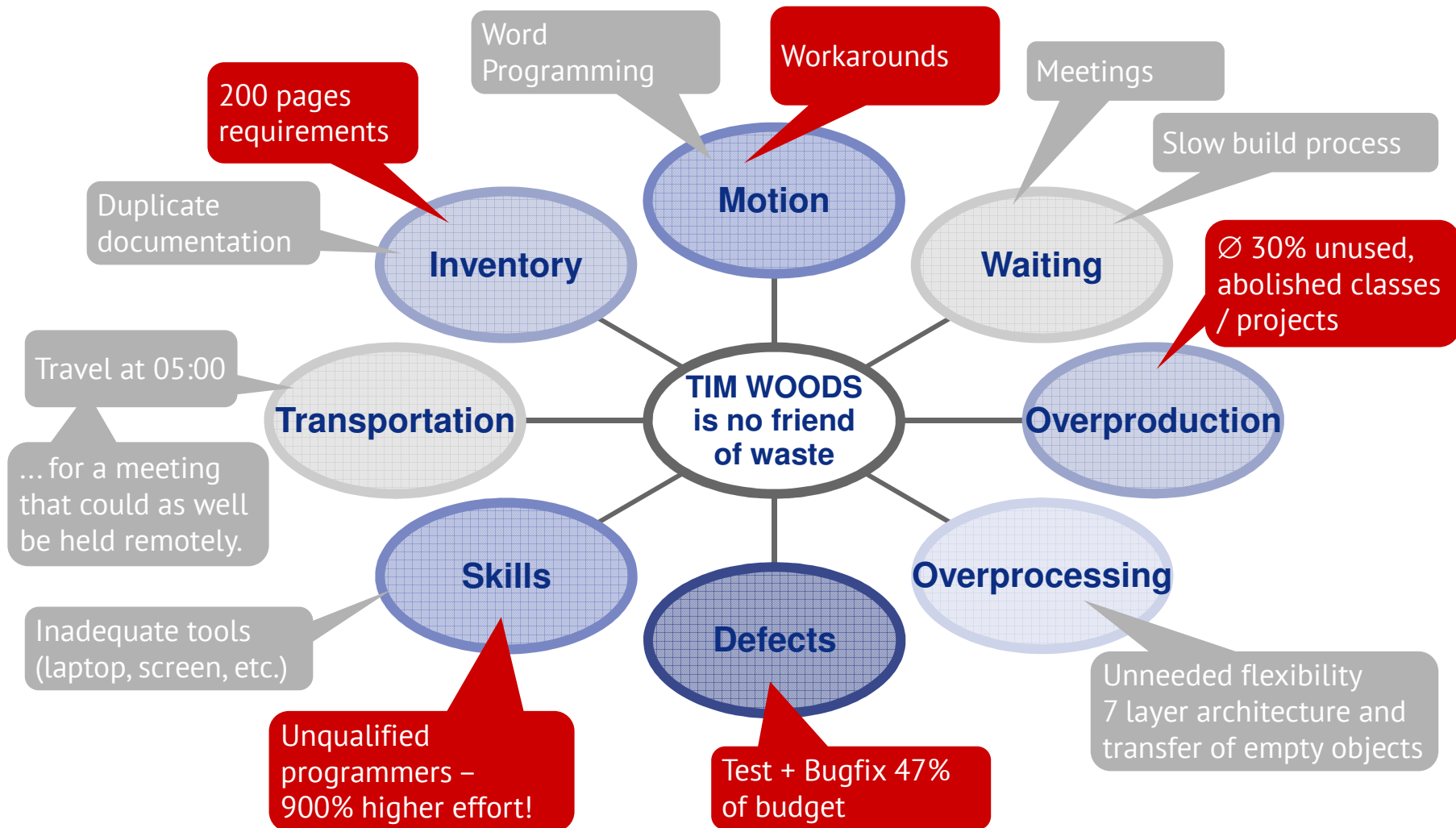**Credit card glitch blocks transactions in major Israeli chains**

RBS
The Royal Bank of Scotland

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WS

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Business | Market Data | Markets | Economy | Companies | Entrepreneurship | Tec

Singapore stock exchange down due to software glitch

3 December 2014 | Business

4 | Waste

What is **Waste**?

Some waste examples in software

- Writing paper documents → most likely nobody will read them

- Lack of knowledge sharing → leads to reinventing the wheel

- Software development without customer validation

- Software development without putting it into production
  - E.g. the project gets cancelled, software never used

- Extra features (see slide 17)

- Build processes that take a lot of time
  - E.g. building script that takes 5 minutes each time

- Bloated environments with many setup configurations

- Multitasking: task switching overhead

Source: http://zsoltfabok.com/blog/2012/08/waste-in-software-development/

5 | Lean.equals(Agile)?

Conclusion

- Agile & Lean share many features, but...
  - Agile is a concrete process for software development.
  - Lean is a set of principles, almost a philosophy, applicable to virtually everything (building cars, cooking dinner, ...)

MORE INTEREST?

Computer scientists wanted!

- **Full-time employment**

- **Working student**

- **Internship**

- **Final thesis** (Bachelor, Master)

More information:

https://itestra.com/en/career/

QUESTIONS?

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