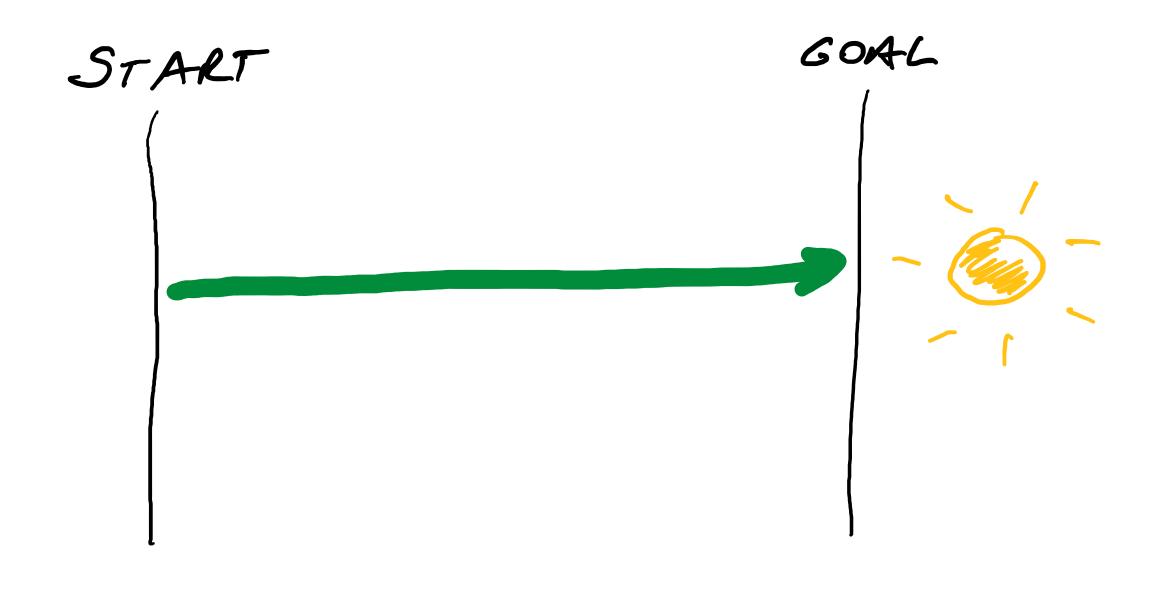
The DevOps Transformation Toolbox

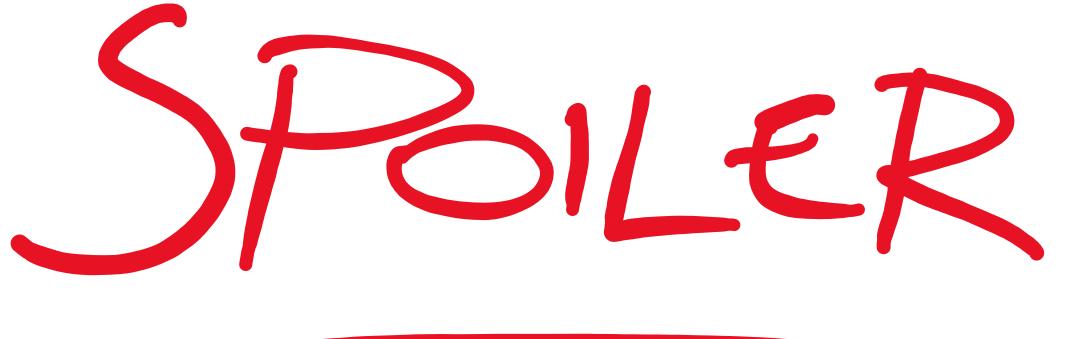


RBI's Journey to Modern SW Engineering

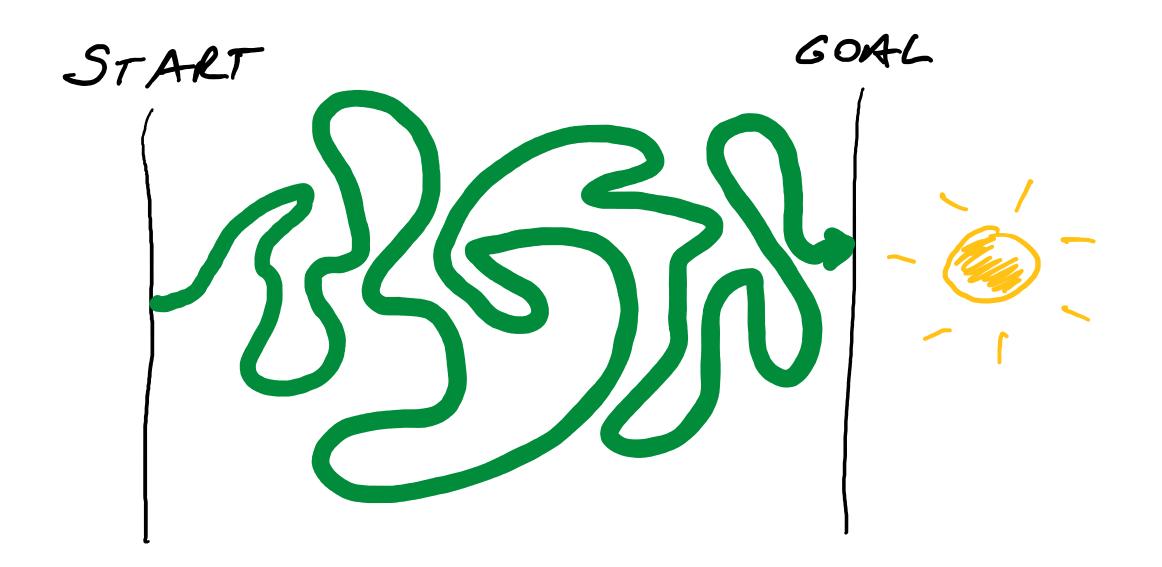
Robert Ruzitschka



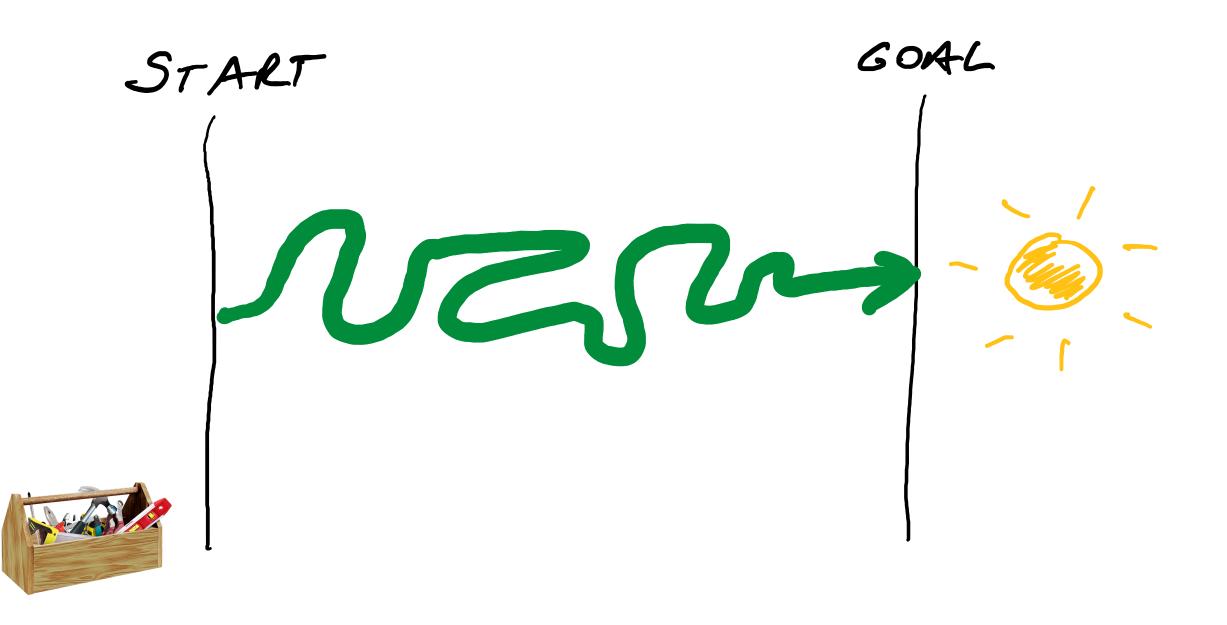












Who am I?

- Robert Ruzitschka
- DevOps Community Lead/Agile Engineering Coach
- I also like to write and talk about SW Engineering/Agility

https://www.linkedin.com/in/robert-ruzitschka/ https://medium.com/@rruzitschka



@DevOpsBob1





Well, this is what the web site says:

- Leading corporate and investment bank in Austria
- Acting as RBI Group in 13 CEE markets represented as universal banks
- Around 46.000 employees servicing 19mn customers



Member of RBI Group

Who is RBI?

What RBI was:

- A multitude of organizational setups, processes, technologies
- A similar variety in ways of working
- A very "traditional" way in approaching market challenges and doing business
- IT was seen as an auxiliary function the cost center



Member of RBI Group

Why do we see the need for transformation?

Less but more customer focused



Faster Time To Market

Secure customer journeys

How do we get there?





Have a clear picture of the target operating model



1. Clear Picture







1. Clear Picture

Key objectives	Key Results
Deliver software in an automated and managed way	 Software is delivered in an automated, secured and managed way to allow fast and flexible deployments without sacrificing quality. This includes a high level of automation and the use of a proper CI/CD pipeline Reduce manual IT Operations and have applications run by end2end DevOps teams with high automation. Reduced manpower effort for running IT Products

Objectives and Key Results (OKRs)



2. Objectives and Key Results (OKRs)

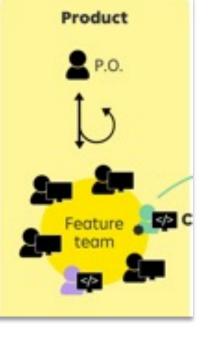
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S Agile Engineering Maturity Model (AEMM)

https://github.com/raiffeisenbankinternational/AEMM



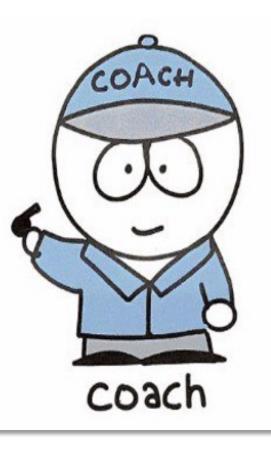
3. Agile Engineering Maturity Model (AEMM)



Detailed result CRAWL WALK RUN CI/CD Automation Code 100% 100% 100% CI/CD Automation 100% 100% Code quality 100% **CI/CD** Automation 100% 0% Automation 100% **CI/CD** Automation Pipeline 100% 100% 100% **CI/CD** Automation 100% 100% 100% Deployment **CI/CD** Automation 100% Environment ownership 100% 100% CI/CD Automation Environment setup 100% 100% 100% 100% 100% DevOps Approach Operations 100% Monitoring 100% DevOps Approach 100% 0% Incident management 100% 100% 100% DevOps Approach 100% 100% 100% DevOps Approach Release cycle DevOps Approach Release impact 100% 100% 100% Quality 100% 100% 50% DevOps Approach 100% 100% 100% DevOps Approach Development process 100% 67% DevOps Approach Team 100% Skills 100% 33% 0% DevOps Approach 80% 60% 40% Test Approach Test Planning & Control 0% Test Approach Test Analysis & Design 100% 100% Test Implementation & Execution 100% 75% Test Approach 100% 100% 50% Test Approach Test Data 100% 100% Test Approach Test Environment 100% 100% 100% Test Approach Test Doubles 100% 0% 100% 0% Test Approach Test Documentation 100% Test Approach Test Skills 100% 100% 100% 100% 50% Test Automation Test Design 0% 100% 50% Test Automation Test Automation Development 100% Test Automation Test Execution 100% 100% 50% 0% Security Security Design 0% 0%



4. Agile Engineering Coaches



- Enabling Teams in the area of CI/CD, Testing, Test Automation
- Time boxed assignments
- Pre-aligned scope and goals

4. Agile Engineering Coaches



"Engineering Coaches don't work FOR the team, the work WITH the team."

Agile Engineering Coaches



Central Developer Platform



5. Central Developer Platform

Search or jump to	Pull requests Issues Explore		
묘 raiffeisen / group-ci-cd-platforn	Public		GitHub
<> Code	🕞 Actions 🔟 Projects 🖽 Wiki 🛈 Security 🗠 Insights 🕸 Settings 🖸 GitHub Page		
	²⁹ main - group-ci-cd-platform / ghes-enterprise-configuration.md		
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	Overview		
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	Current Enterprise Configuration		JFrog Artifactory

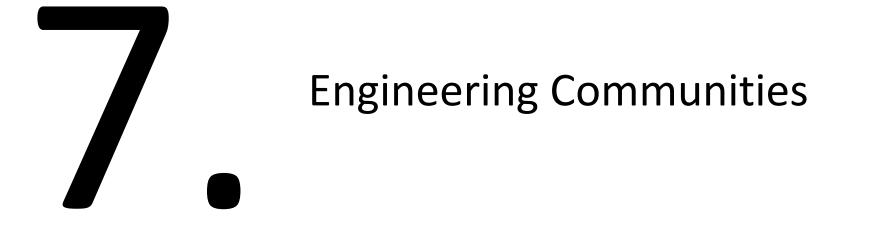


G Inner Source Initiative



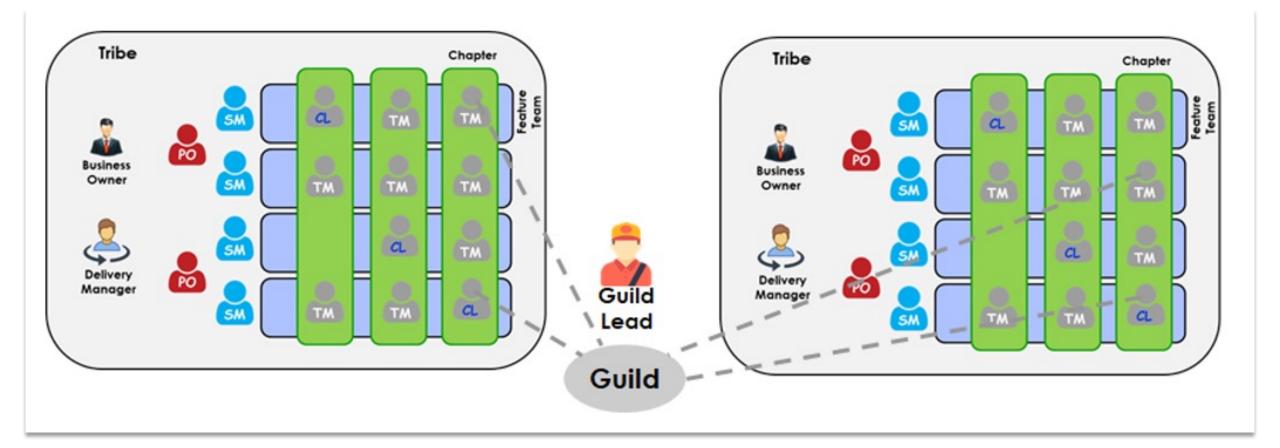
6. InnerSource Initiative







7. Engineering Communities

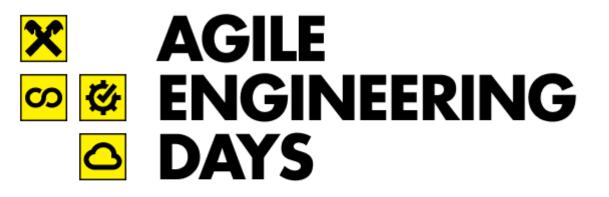


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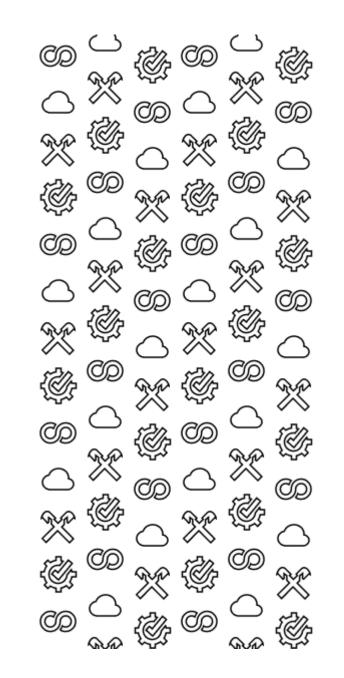
Internal Engineering Conferences



8. Internal Engineering Conferences







Individual Learning



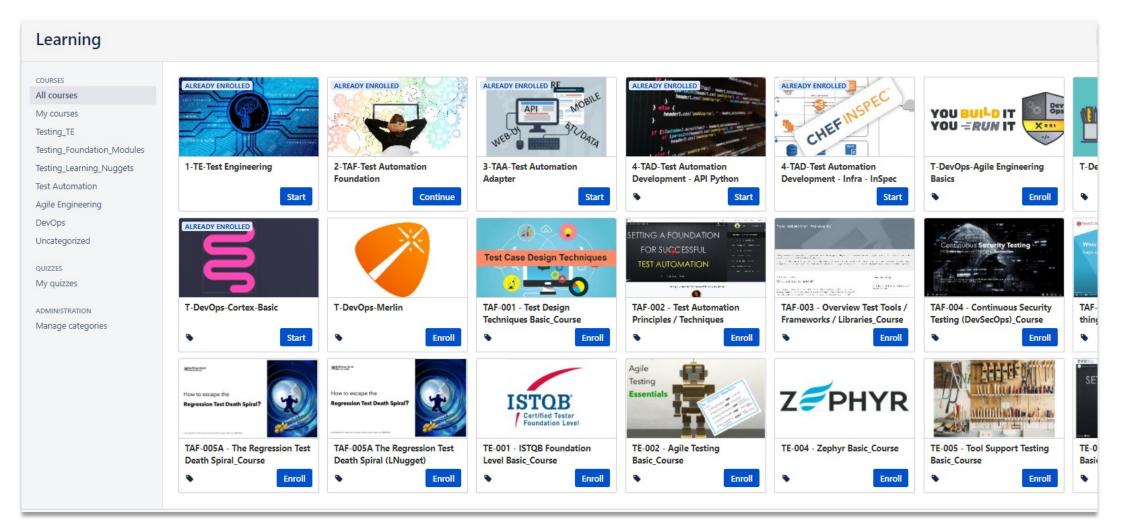
9. Individual Learning





9. Individual Learning

Learning Journeys





Product:

RBI Agile Engineering Maturity Model

average

WALK

WALK

93%

100%

83%

73%

0%

100%

100% 100%

100%

50%

100%

100% 100%

100%

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100%

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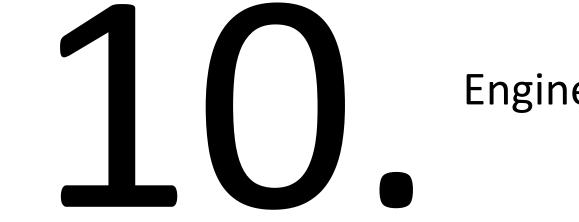
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	questions		min	average	max	min
	ne to deliver a fe					
	y number of dep	•				
	repair a product					
	of production in	ncidents after go-live				
6						
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8 Overview			CRAWL	WALK	RUN	CRA
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· ·	Approach		100%	67%	37%	100%
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6 Detailed	l result		CRAWL	WALK	RUN	CRAWL
7 CI/CD A	utomation	Code	100%	100%	100%	100%
8 CI/CD A	utomation	Code quality	0%	0%	0%	100%
9 CI/CD A	utomation	Automation	100%	100%	0%	100%
0 CI/CD A	utomation	Pipeline	100%	50%	0%	100%
1 CI/CD A	utomation	Deployment	100%	50%	50%	100%
2 CI/CD A	utomation	Environment ownership	100%	100%	50%	100%
3 CI/CD A	utomation	Environment setup	100%	100%	100%	100%
4 DevOps	Approach	Operations	100%	100%	100%	100%
5 DevOps	Approach	Monitoring	100%	100%	0%	100%
6 DevOps	Approach	Incident management	100%	100%	100%	100%
	Approach	Release cycle	100%	100%	50%	100%
8 DevOps	Approach	Release impact	100%	100%	50%	100%
9 DevOps	Approach	Quality	100%	0%	0%	100%
0 DevOps	Approach	Development process	100%	0%	0%	100%
1 DevOps	Approach	Team	100%	67%	33%	100%
2 DevOps	Approach	Skills	100%	33%	0%	100%
3 Test App	proach	Test Planning & Control	0%	0%	0%	75%
4 Test App	proach	Test Analysis & Design	100%	33%	0%	100%
5 Test App	proach	Test Implementation & Execution	100%	50%	25%	75%
6 Test App	proach	Test Data	100%	50%	0%	100%
7 Test App	proach	Test Environment	100%	100%	0%	100%
8 Test App	proach	Test Doubles	100%	100%	100%	100%
9 Test App	proach	Test Documentation	0%	0%	0%	100%
0 Test App	proach	Test Skills	100%	0%	0%	100%
1 Test Aut	tomation	Test Design	100%	100%	0%	100%
2 Test Aut	tomation	Test Automation Development	100%	50%	0%	100%
3 Test Aut	tomation	Test Execution	100%	100%	0%	100%
4 Security		Security Design	0%	0%	0%	0%

Comparison to AEMM 2020

We see progress on basically all dimensions!

Great job!



Engineering KPIs

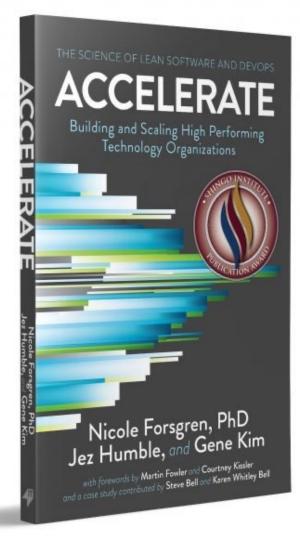


10. Engineering KPIs



Metric	Explanation
Deployment Frequency	Refers to the frequency of successful software releases to production.
Lead Time for Changes	Captures the time between a code change commit and its deployable state.
Mean Time to Recovery	Measures the time between an interruption due to deployment or system failure and full recovery.
Change Failure Rate	Indicates how often a team's changes or hotfixes lead to failures after the code has been deployed.

10. Engineering KPIs



ACCELERATE

The Science of Lean Software and DevOps: Building and Scaling High Performing Technology Organizations

Wrap-up



Short wrap-up of our toolbox

- 1. Clear Target
- 2. OKRs
- 3. Agile Engineering Maturity Model
- 4. Agile Engineering Coaches
- 5. Central Developer Platform
- 6. InnerSource
- 7. Engineering Communities
- 8. Internal Engineering Conferences
- 9. Individual Learning
- 10. Engineering KPIs



Did it work?

Have you made progress?

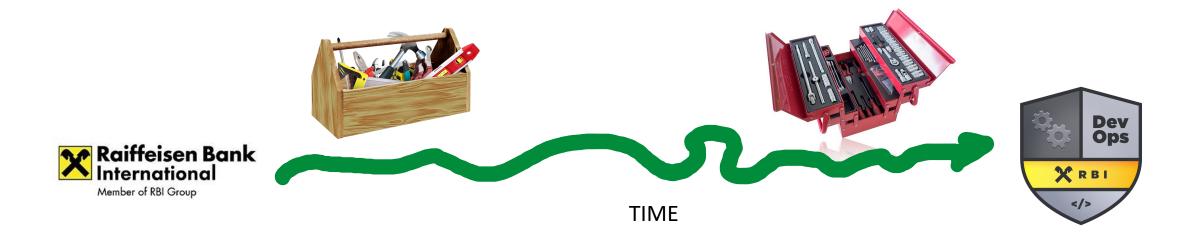


Achievements

- Awareness about DevOps
- Knowledge about CI/CD and Testing
- Moved dozens of products to pipeline and automated build/test/deploy
- Improved Deployment Frequency and Lead Time considerable
- Big move to the public cloud
- Established lively communities
- Hundreds of people have improved knowledge and skills



The DevOps Toolbox



Thank You!





https://www.linkedin.com/in/robert-ruzitschka/

