Software Engineering Conference Russia 2018

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Moscow

“DeepDive” with experts: share to improve

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T-Systems Russia

LIFE IS FOR SHARING.

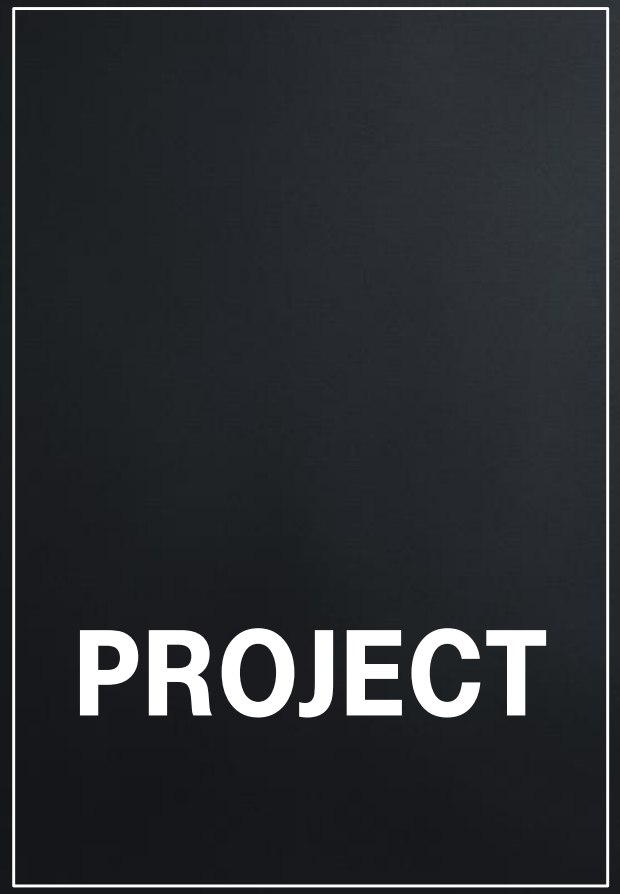
Deep Dive. Goal

IMPROVE CROSS-TEAM KNOWLEDGE SHARING & COLLABORATION

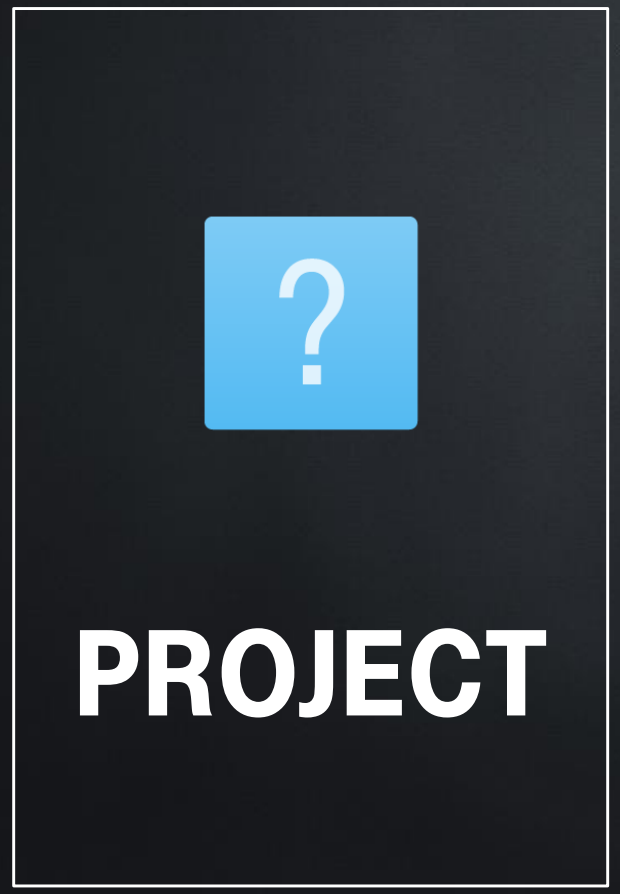
TO SEEK AND PROMOTE IMPROVEMENTS

Deep Dive. Main Idea

Deep Dive. Main Idea



Deep Dive. Main Idea



Deep Dive. Main Idea

PROJECT

EXPERTS

Deep Dive. Main Idea

PROJECT

EXPERTS

Deep Dive. Main Idea

PROJECT

EXPERTS

QUALITY

Deep Dive. Main Idea

PROJECT

EXPERTS

QUALITY

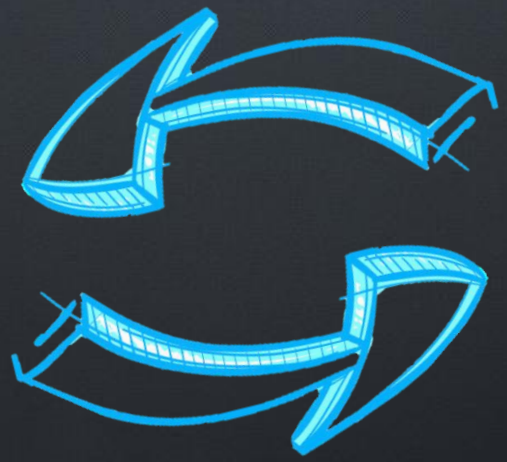
Deep Dive. Main Idea

PROJECT

EXPERTS

QUALITY

Deep Dive. Main Idea



PROJECT

EXPERTS

QUALITY

Deep Dive

AUDIT

Deep Dive

AUDIT

80% Compliance

20% Improvements

Deep Dive

AUDIT

80% Compliance
20% Improvements

DEEP DIVE

Deep Dive

AUDIT

80% Compliance
20% Improvements

DEEP DIVE

80% Improvements
20% Compliance

Deep Dive

AUDIT

80% Compliance
20% Improvements

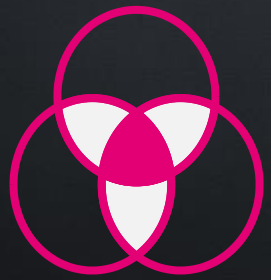
DEEP DIVE

80% Improvements
20% Compliance

Deep Dive. Core Elements

SCENARIO

DEEP DIVE



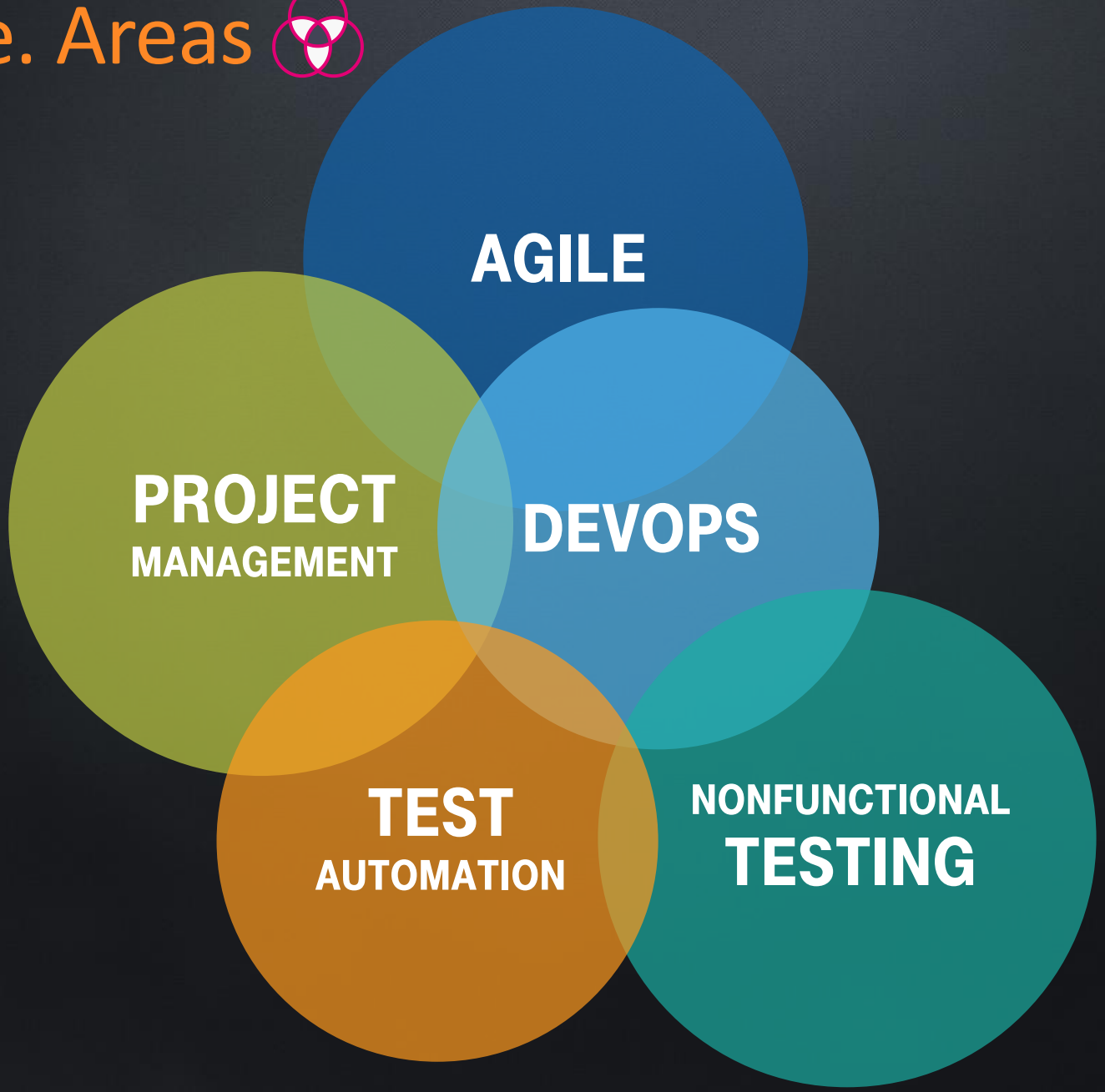
AREAS

EXPERTS

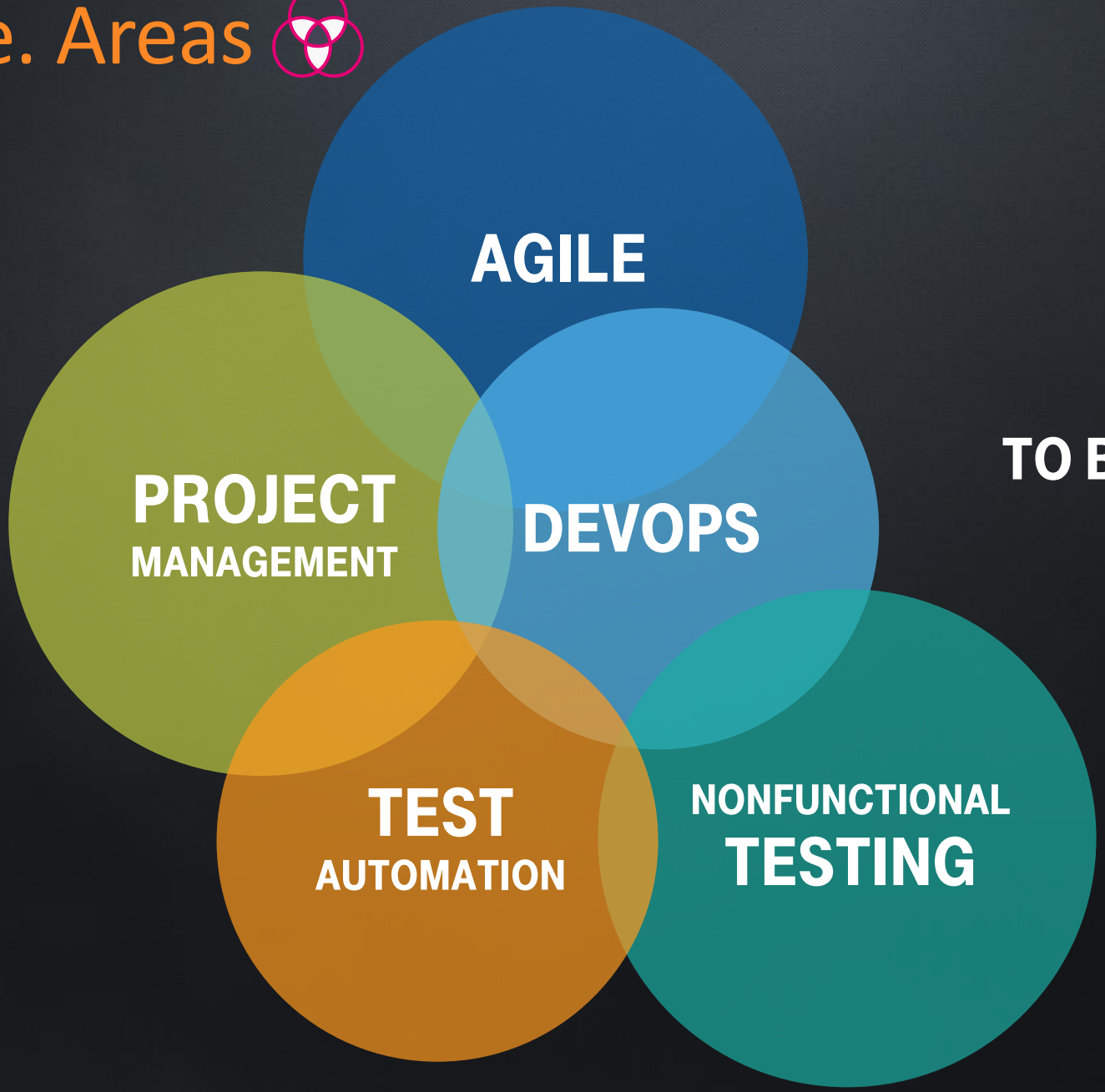
AREAS

DeepDive

Deep Dive. Areas



Deep Dive. Areas

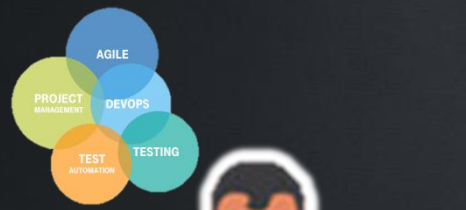


TO BE CONTINUED...

EXPERTS

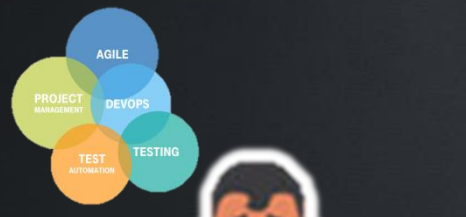
DeepDive

Deep Dive. Experts



SUBJECT MATTER EXPERT

Deep Dive. Experts



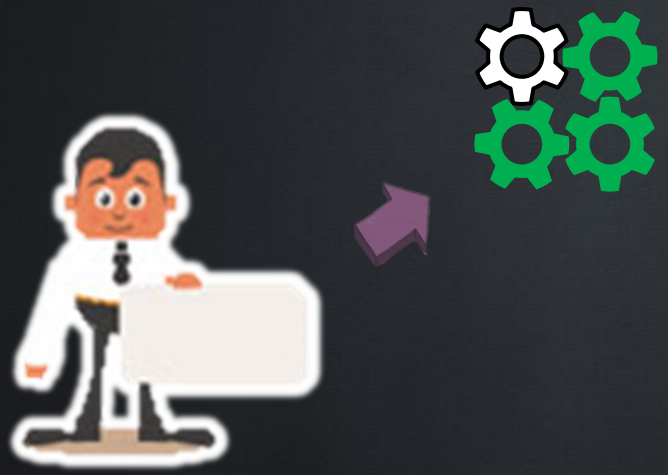
SUBJECT MATTER EXPERT

EXPERT „THERAPEUTIST“

Deep Dive. Experts

PROJECT

Deep Dive. Experts



Deep Dive. Experts

PROJECT

SUBJECT MATTER EXPERT

Deep Dive. Experts

PROJECT

SUBJECT MATTER EXPERT

Deep Dive. Experts

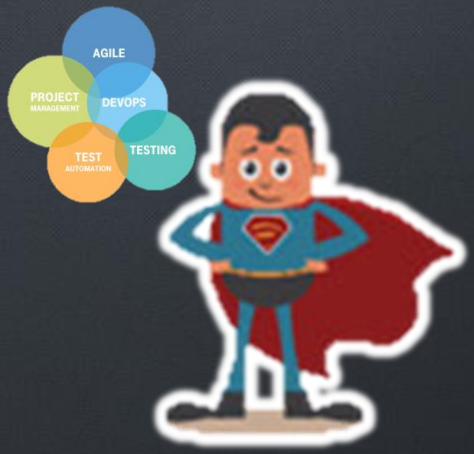
PROJECT

SUBJECT MATTER EXPERT

Deep Dive. Experts

PROJECT

EXPERT-THERAPEUTIST



SUBJECT MATTER EXPERT

Deep Dive. Experts

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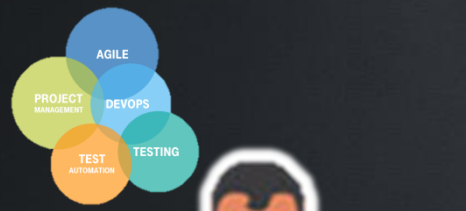
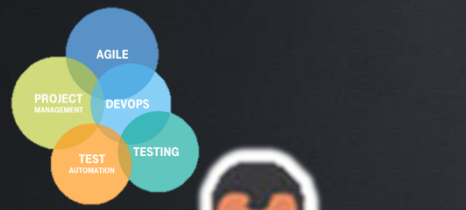


SUBJECT MATTER EXPERT

EXPERT „THERAPEUTIST“

Deep Dive. Experts



SUBJECT MATTER EXPERT

EXPERT „THERAPEUTIST“

CANDIDATE EXPERT

Deep Dive. Experts

SUBJECT MATTER EXPERT

EXPERT „THERAPEUTIST“

SHADOW MODE
With Trusted Expert

CANDIDATE EXPERT

SCENARIO

DeepDive

Deep Dive. Scenario

Deep Dive. Scenario

Deep Dive. Scenario

SEEK IMPROVEMENTS

PROMOTE IMPROVEMENTS

Deep Dive. Scenario

SEEK IMPROVEMENTS

SECR

DEEP DIVE

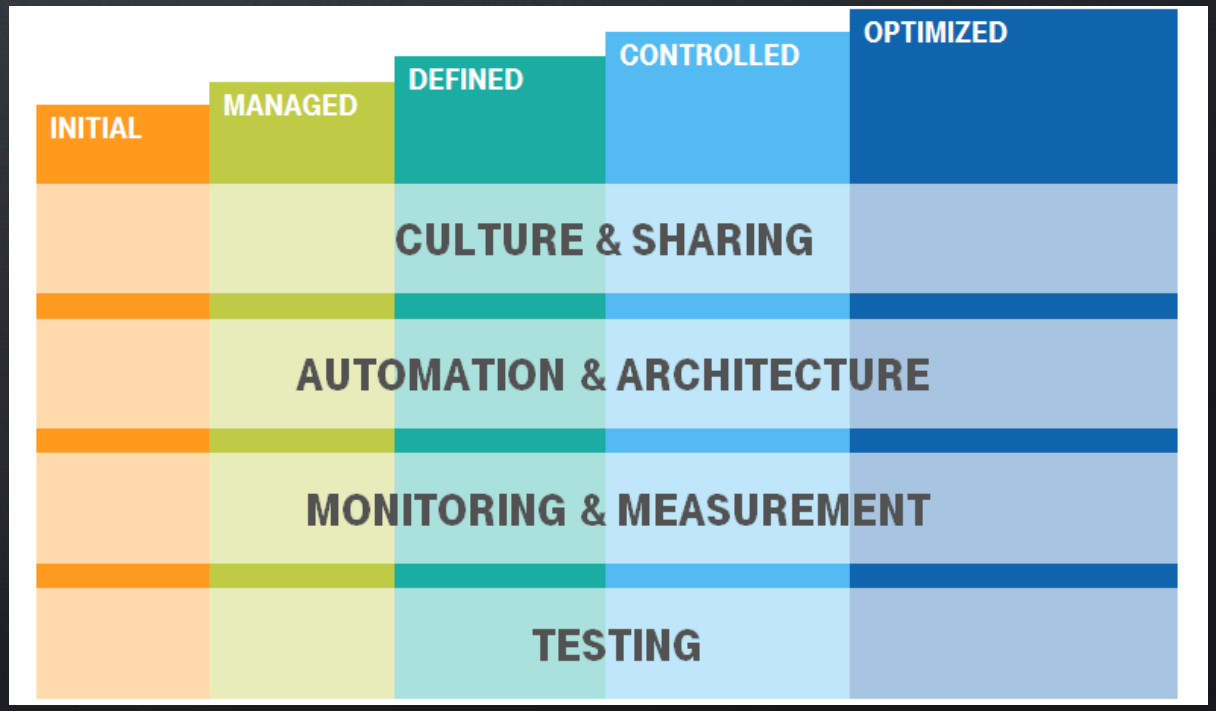
1) Request from team
2) Project team involvement
3) Expert involvement in team activities
4) Scenario & Agenda for each Area

Agile Scenario (default)

Activities	Description
Intro	Initial interview with the PM-SM, project specifics
	Interview with team members ("view from below"),
	Interview with Product Owner
Planning Game	Participation in Planning Game
	Planning Game follow up
Demo	Demo
	Follow up demo
Retro	Retro
	Follow up Retro
Finalization	Artifact analysis
	Time slot for extra meetings and communication with the team
	Final Report preparation (recommendations, conclusions, results)
	Presentation of results, discussion with the team

Deep Dive. Materials

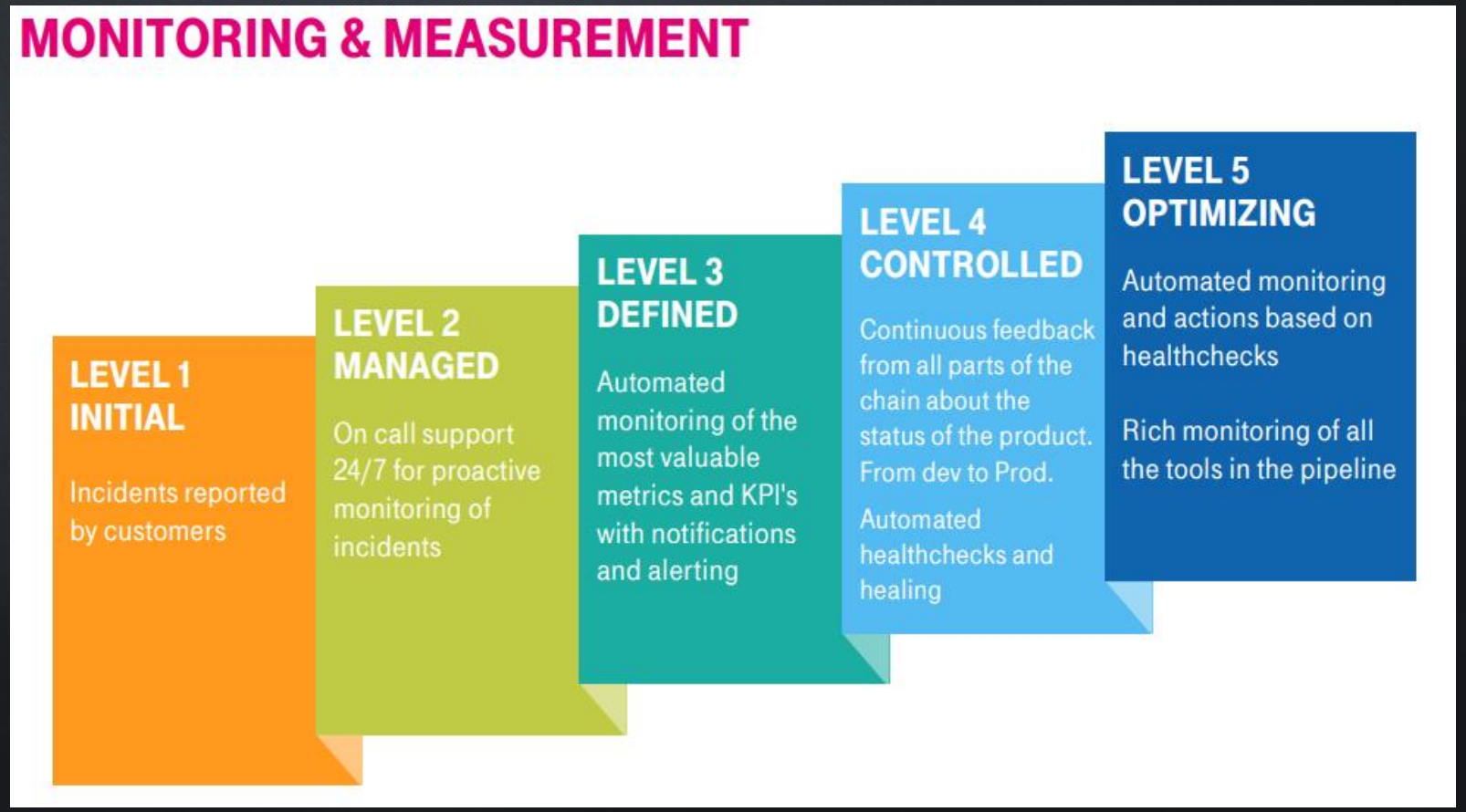
DEVOPS MATURITY MODEL



Deep Dive. Materials

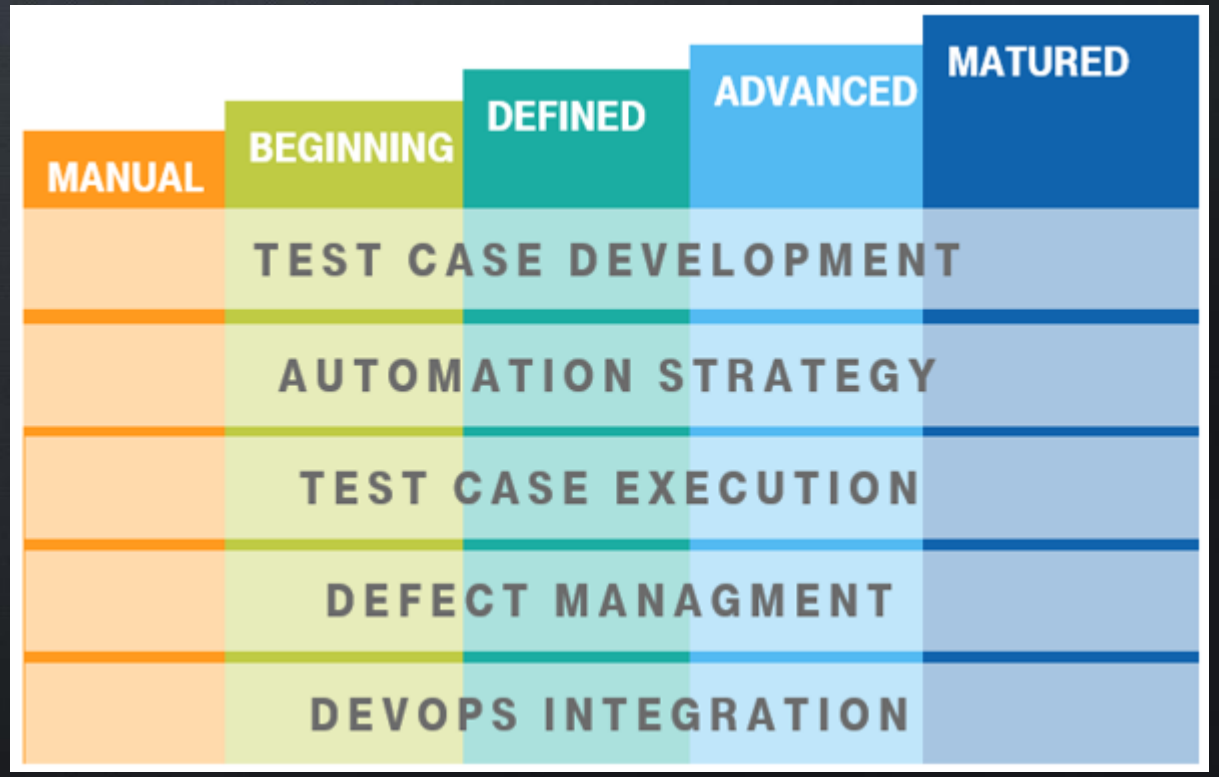
DevOps

- Culture & Sharing
- Automation & Architecture
- **Monitoring & Measurement**
- Testing



Deep Dive. Materials

TEST AUTOMATION MATURITY MODEL



Deep Dive. Results

PROMOTE IMPROVEMENTS

Final Report

1) "Project" State Of The Art
2) Pain Points
3) Possible Optimizations
   - Phase 1, Phase 2, Phase 3…
   - Reasons
   - Criticality
4) Estimations for Implementation
5) Summary and next steps

Money

DeepDive

What's the price? Agile

DEEP DIVE.

- no additional time costs for the team

APPROX. TIME ESTIMATIONS (AGILE EXAMPLE)

Activities	Description	Hours
Intro	Initial interview with the PM-SM, project specifics	2 h
	Interview with team members ("view from below"),	4 h
	Interview with Product Owner	1 h
Planning Game	Participation in Planning Game	2 h
	Planning Game follow up	1 h
Demo	Demo	2 h
	Follow up demo	1 h
Retro	Retro	2 h
	Follow up Retro	1 h
Finalization	Artifact analysis	3 h
	Time slot for extra meetings and communication with the team	4 h
	Final Report preparation (recommendations, conclusions, results)	4 h
	Presentation of results, discussion with the team	2 h
Summary	Duration (average): ~ 3 weeks	**29 h**

several cycles?

LIFE IS FOR SHARING.

What's the price? Non-functional Testing

DEEP DIVE
NFT LUP APPROX. TIME ESTIMATIONS

Stages	Steps	Estimation*, hours
Intro	Meeting with team (PM, Devs/Testers). Test planning	1 - 2
Test design	Test analysis/Test design/Proof-of-Concept (PoC) preparing	40
	Test/PoC presentation	1 - 2
Implementation	Test development	40 – 60
	Deployment	8 - 24
	Test run, results analysis	16 - 32
	Report	2 - 8
Knowledge transfer	Workshop preparing	16 – 24
	Workshop	2 - 7
Summary	**Duration: ~ 4 - 6 weeks**	**126 - 199**

* depends on the complexity of the task

LIFE IS FOR SHARING.

Deep Dive …

… IS NOT ANOTHER PROJECT AUDIT
… IS NOT ANOTHER REPORT
… IS NOT A PUNISHMENT OR JUDGMENT OR SANCTIONS
… IS NOT MANDATORY

… IS AN INSTRUMENT OF TRUST AND SHARING

DEEP DIVE

ПРОКАЧАЕМ ВАШ ПРОЕКТ

Лучше – бывает.

LIFE IS FOR SHARING.

QUESTIONS?

DeepDive

Deep Dive …

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SECR 2017: От Knowledge Acquisition к Knowledge Management
http://2017.secrus.org/program/submitted-presentations/from-knowledge-acquisition-to-knowledge-management