

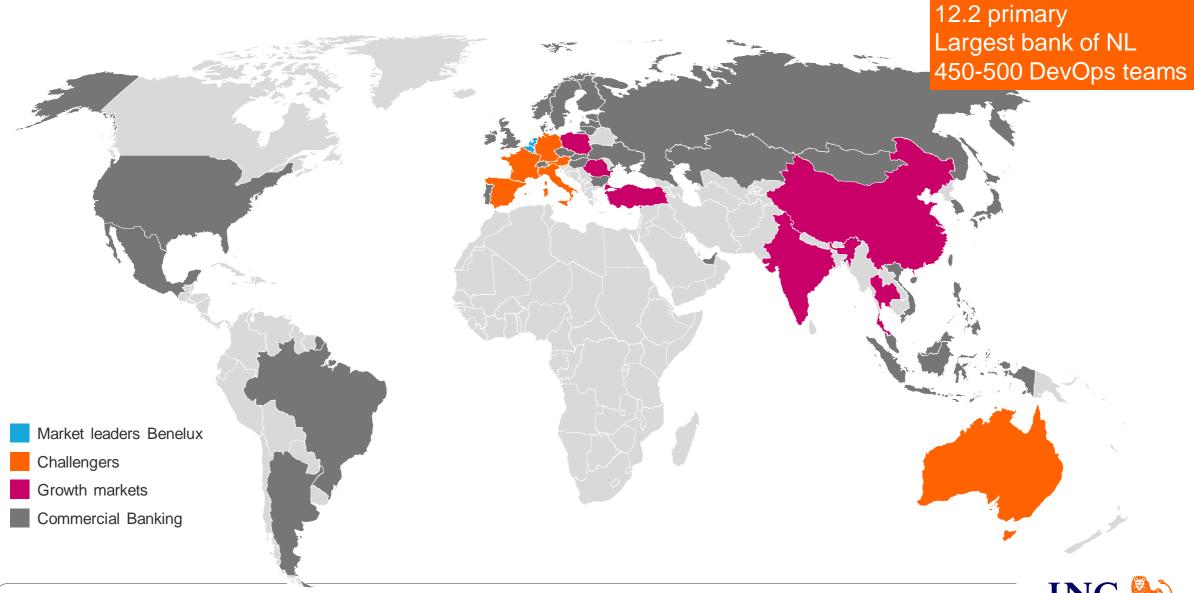
a little bit about me Jan-Joost Bouwman



- Risk Mngmt (coordinator SOx testing Domestic Bank NL)
- Previously: Change management
- 20+ years experience in IT
- Enjoys speaking at conferences about DevOps and Risk Management @ING
- Enjoys helping engineering colleagues to speak at conferences as well
- Privately: birder and traveller
- Enjoys tweeting about IT conferences
- Twitter handle: @JanJoostBouwman



Who is ING?





Over 40 countries

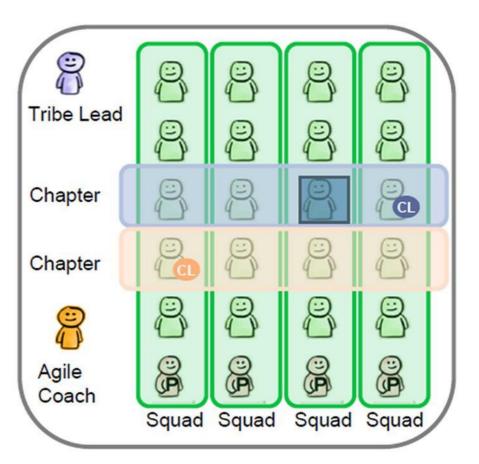
52,000+ employees

38 million Retail clients

Three phases of Agile

Agile (2011) => DevOps (2013) => BizDevOps (2015)



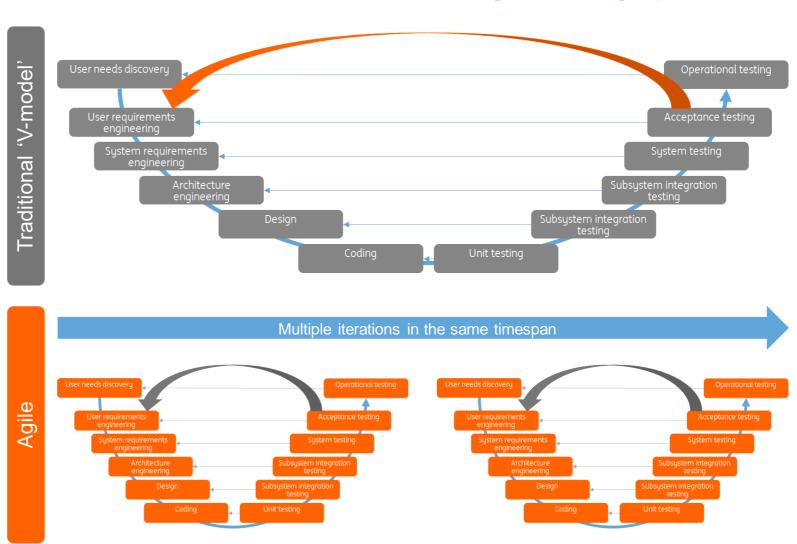




The Agile Way of Working reduces the risk of getting the design wrong due to quick iterations, but it also requires a 'shift left' to address risks during the design phase

Shift Left

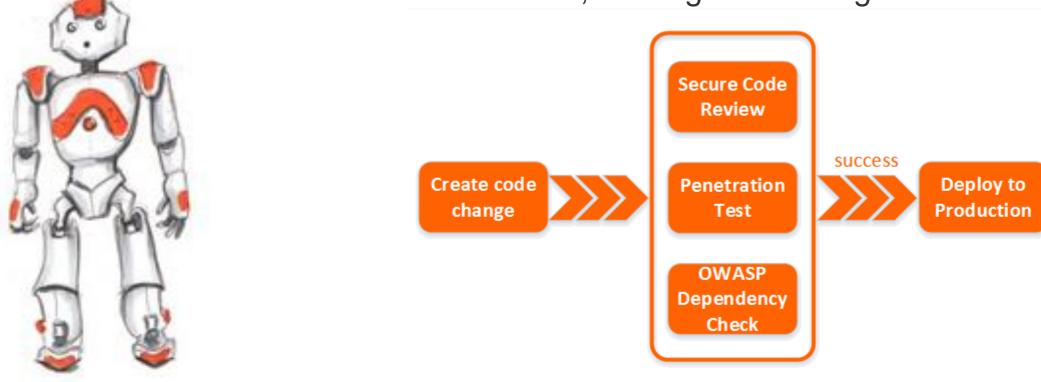
- In a shift-left approach, testing is moved to the left in the software development lifecycle
- Instead of testing at the end of the delivery lifecycle, validation is performed during early stages already, including the development of automated tests.
- Developers can focus on quality right from the beginning, making it easier to fix, rather than waiting for defects to be discovered late in the development life cycle





We call this 'shift left' Security by Design It is also known as DevSecOps

Automation is essential, starting with testing



But it all starts with a Risk Aware Mind-set!



What is Risk Awareness Day? | Concrete focus on Risk topics at your own desk in combination with central awareness discussions

Risk Awareness Days 2017

May 22 Credentials

Jul 3 Vulnerabilities

Sept 11 Data Breaches

Oct 9 Layered security

Nov 20 Domain Segmentation

Objectives:

- Create risk awareness
- (IT) Risk in the DNA of our employees
- Improve our security profile

How: Full day focus on (IT) Risk

- Introduction topic by senior management via webcast
- Clear run book giving teams concrete assignments
- Provide guidance to find relevant policies, standards, etc.
- Fun elements
- Active support by risk experts on the floor

Risk Awareness Days 2018

Feb 19 Security Monitoring

Apr 23 Privacy by Design

Jun 18 IAM Summer Clean up

Sept 17 Design for failure

Nov 19 Risk Action Day

Where:

- · On the work floor
- Central locations for support and guidance

Mantra 1: "Celebrate Failure"

- Treat every identified or reported data issue as feedback (as a gift) → it will enable us to improve the Risk & Security of ING
- Look back at your backlog and identify and prioritize Risk Areas where we need to improve

Participants: (>2500 and growing)

Domestic Bank IT departments NL and BE + growing number other departments

Mantra 2: "Celebrate Success by Doing it Right"

- Operational Discipline is key for maintaining IT Risk Score
- Use Risk Journeys and ORM for correct implementation and quality levels
- Share best practices and look for automation opportunities where possible



Key succes factors for Risk Awareness Days

Dedicated day where <u>all</u> engineers focus on IT Risk

Risk awareness days | Ground rules

- All examples shown and discussed during this presentation
- Issues that will be discussed during the Risk Awareness Days
- · Vulnerabilities/Issues that will be discovered and/or solved





- Discuss issues found only with key stakeholders
- Minimize discussion in large groups or audiences
- IT Risk tools and reports should only be shared on

Be risk aware: It is best practice not to discuss any work related topics outside of the bank



- Clear Ground Rules: Be Risk Aware in sharing issues and practices
- Concrete topics that are relatable and relevant e.g. Credentials, Vulnerabilities
- Program with mixed learning
- Runbook and content guides providing Risk SPOCs and engineers clarity which actions to take
- Clear roles & responsibilities for all parties
 - Management and Product owners: leading and initiating
 - Risk SPOCs (1st line): guidance on content and trigger discussion to increase awareness
 - Engineers: learn and focus on making ING more secure





Key ingredients

- **Emphasis on Risk Awareness Day Mantras**
- Learning
 - Webcast with motivating content based kick off
 - Webcast with external experts providing their insights
 - Workshops on content
- Fun
 - Kahoot Risk Quiz for the Risk Awareness Cup
 - Games: e.g Secure Code Warrior, IT Risk Game, Red/Blue team, etc.
- Content guides per Risk Awareness Day on Confluence
 - Links to more information & step-by-step instructions for teams
- Central locations with snacks & drinks to get answers and have discussions











Defend (Blue)

SOLL vs Aveksa

ING &





Risk awareness day | Program September 17 |:

Time	Program	10.30 and 14.30 with snacks and drinks	
08.30	Start Risk Awareness Day: Prepare workplace, screens & get ready for	Discuss topics with Risk Experts	
09.00	Live Webcast: Peter Jacobs, Joe Katz: "Be Resilient, design for failure"		
09.45	Hunt & Fix: (1) Focus on changes without downtime: All changes between 9-5 and (2) Design for 100% availability: Analyse your set up and enhance your resilience (e.g. active-active solutions) Learn & play: Please subscribe a.s.a.p. Workshops: SRE Workshops, APT Scenario analysis, Sec Mon with Tech PL, Disaster Recovery Games: Red Blue team game, Secure code Warrior		
12.15	Energizer: Kahoot Risk Quiz		
12.30	Free time: Have lunch – stretch your legs		
13.30	Live Webcast: Ad van der Graaff & Léon Janson: ""IT Resilience, what does it take?""		
14.00	Hunt & Fix: (1) Create transparency and deliver evidence for IT Resilience (e.g. Availability, capacity & performance plans) and (2) Be Resilient: Operational discipline on risk controls (e.g. vulnerabilities)		
	Learn & play: see morning sessions. Please subscribe a.s.a.p. via Risk Awareness Day mailbox		
16.45	Wrap up: Share tips & best practices via Confluence and register user stories (#RiskawDay)		
17.00	End of Risk Awareness Day		



Need a Power Break:

Go to one of the central locations Energize your Risk appetite around



2017 (IT DBNL only)

- Credentials
- Vulnerabilities
- Prevent Data Breaches Data Protection
- Layer our Security OCD 3.0
- Domain Segmentation



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2018 (IT NL + BE)

- Security Event Monitoring
- Privacy by Design in IT
- Summer Clean Up
- IT Resilience
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2019 (Business and IT, NL + BE)

- Safe Bank is our #1 Priority!
- Data (Ab)Use Keep our Data Safe!
- KYC Together we can keep out illegal activities



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2020 – oops, we are all working from home now

- Only one RAWD: Sourcing
- All remote, talks only
- Combined with other security events that couldn't go ahead as planned, including one with OWASP BE as a Security Week



Wrap up

- Short cycles of DevOps/CD → Security by Design by shift left is essential
- Security is just as important for a DevOps team as coding or testing
- The role of Risk managers shifts from control to coach
- Automation is a big enabler, but it all starts with a Risk Aware mind-set
- The approach we chose: Risk Awareness Days
- Key elements: relatable and relevant; webcasts and workshops; actionable items; (cyber)security competitions and quizzes.
- A mix of Information, Engineering and Fun creates the biggest impact on Risk Awareness
- Remote you can reach more people, but it will be less interactive

