



randstad technologies solutions

# IoT: our favorite technology acronym.

October 14, 2020

# a global market leader.

randstad globally

in north america

€23.7 billion

in revenue

€4.4 billion

in revenue

38,280

corporate employees

5,690

corporate employees

649,000

avg. talent working each day

94,600

avg. talent working each day

4,861

outlets in 38 markets

1,153

outlets in the U.S. and  
Canada



## technology core service offerings.

- + temp and perm staff augmentation
- + onsite workforce management
- + payrolling and IC solutions
- + business process and functional outsourcing
- + managed services programs
- + recruiting process outsourcing
- + career transition services
- + **engineering/IT solutions (consulting, projects, outsourcing, global footprint, export controls)**



# global solutions and services.

## application services

enterprise application development

mobility and modern web development

application monitoring and maintenance

data management and business intelligence

## infrastructure services

technology deployments

technology and cloud migrations

infrastructure monitoring and maintenance

data center operations/smart hands

## end-user services

service desk

desktop support

ITSM tools/ServiceNow consulting

service management assessments

## engineering solutions

electronics product development

full-lifecycle embedded software development

PC-based engineering tools and simulators

## PMO services

PMO strategy and governance

agile transformations

project and program execution

## strategy and architecture

assessments and improvement recommendations

strategy, planning and design

intelligent automation





greg martin  
vp  
engineering solutions



shi jin lee  
principal  
strategy and architecture



matthew fiallos  
solutions architect  
infrastructure solutions



jared weinbrenner  
sr. solutions architect  
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brian fox  
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engineering solutions



sudi narayanan  
technology director  
application services



jeff brandt  
solutions director  
end-user services

# worldwide spending on IoT continues to grow.



ZNet, 2019



# any new or disruptive technology introduces challenges to your organization.

- state of technical duality (old vs. new)
- operational governance and control
- architectural strategy and alignment
- general skill set gaps



# IoT introduces a unique set of challenges.



## challenge 1

IoT requires competencies outside of a core business capability.



## challenge 2

IoT requires business, IT and engineering alignment and collaboration.



## challenge 3

IoT mandates high-velocity responses.

## challenge #1

# IoT requires competencies outside of a core business capability.

## examples

- air conditioning filter company
  - core competency: filters — period
  - lack of competency in: electronics, applications, infrastructure, connectivity
- industrial battery backup supplier
  - core competency: large, room-size backup batteries
  - lack of competency in: connectivity, applications, infrastructure

should we build in-house or outsource?

- hybrid / bimodal
- business goals
- ROI and time to market
- existing skill-sets
- technical debt
- culture and change threshold



## challenge #2

# IoT requires business, IT and engineering alignment and collaboration.

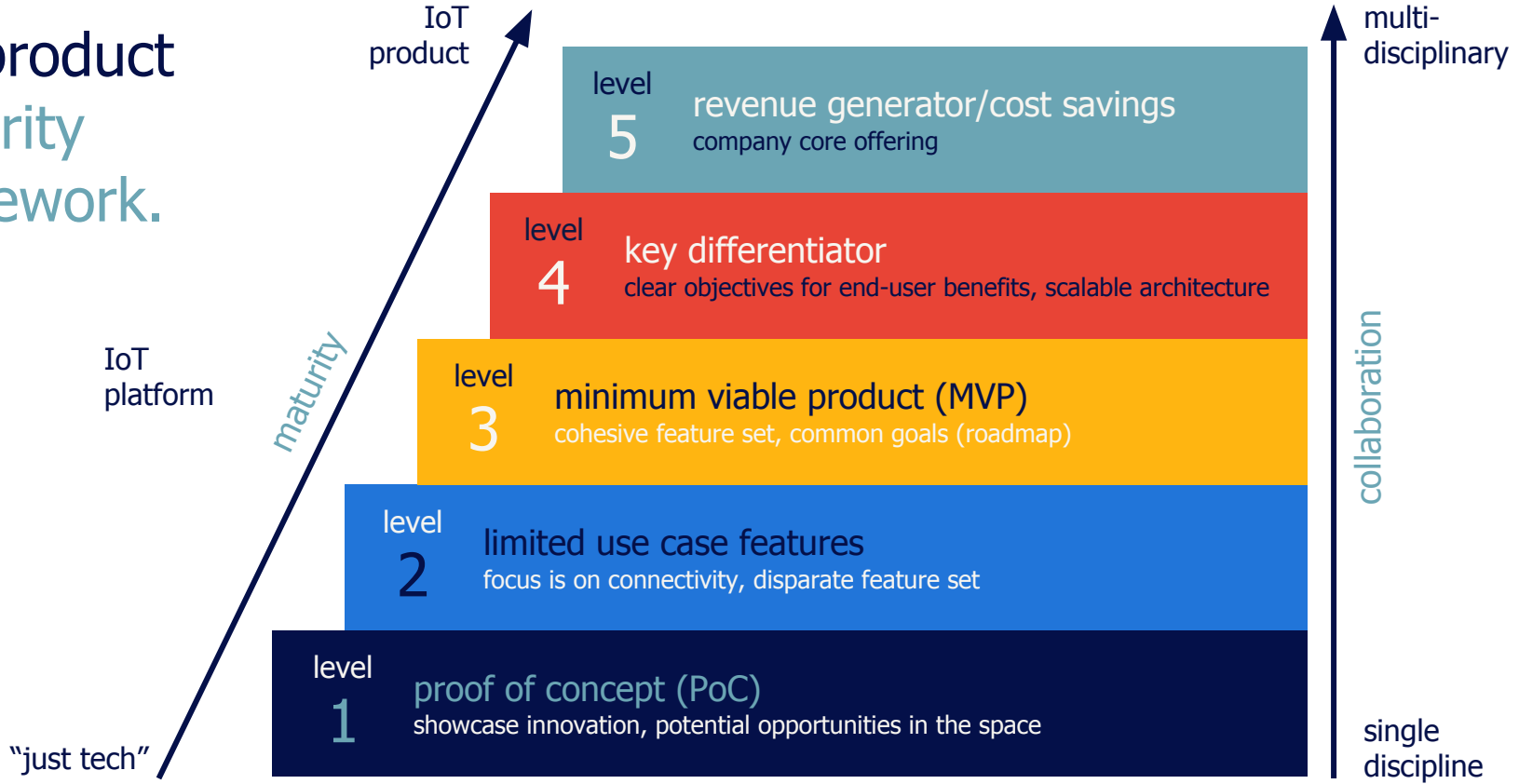
Organizations that truly harness the benefits of IoT are those able to achieve a certain level of organizational maturity and multidisciplinary alignment.

Achieve maturity by:

- including the business as part of their multidisciplinary team
- addressing the IoT solution as a “product” or “core offering”
- making business decisions driven by data



# IoT product maturity framework.



### challenge #3

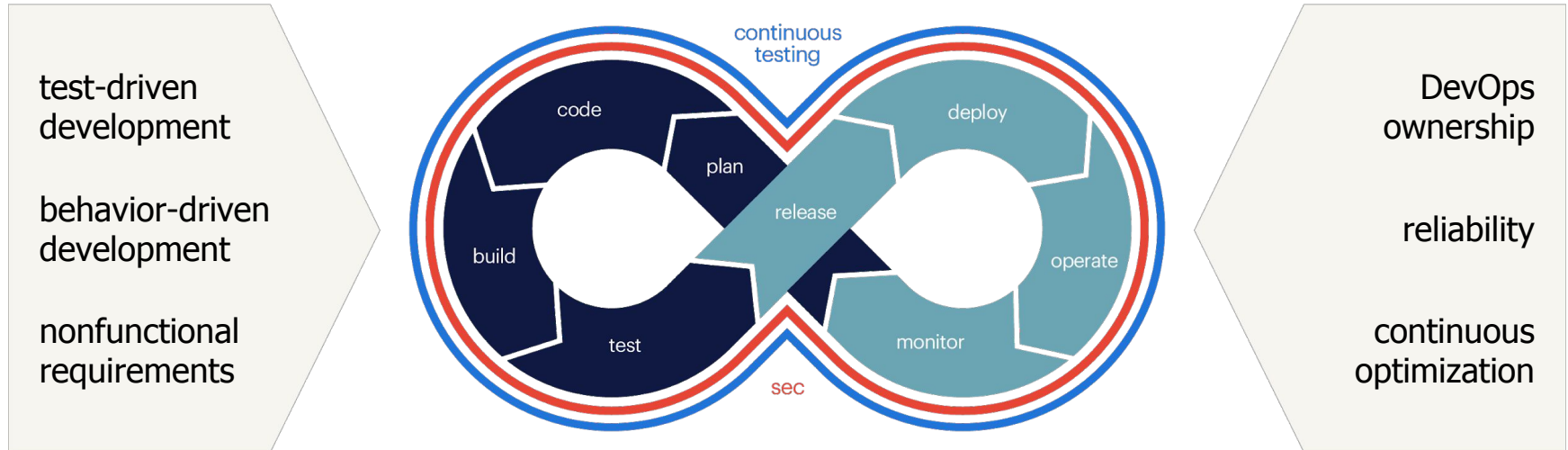
# IoT mandates high-velocity responses.

DevOps can address the velocity needs that IoT demands, while diminishing risk, enhancing quality and increasing maturity in the overall IoT solution roadmap.

- DevOps should not be implemented in silos
- DevOps can improve key aspects of the overall solution:
  - security through DevSecOps
  - requirement quality
  - testing and overall quality

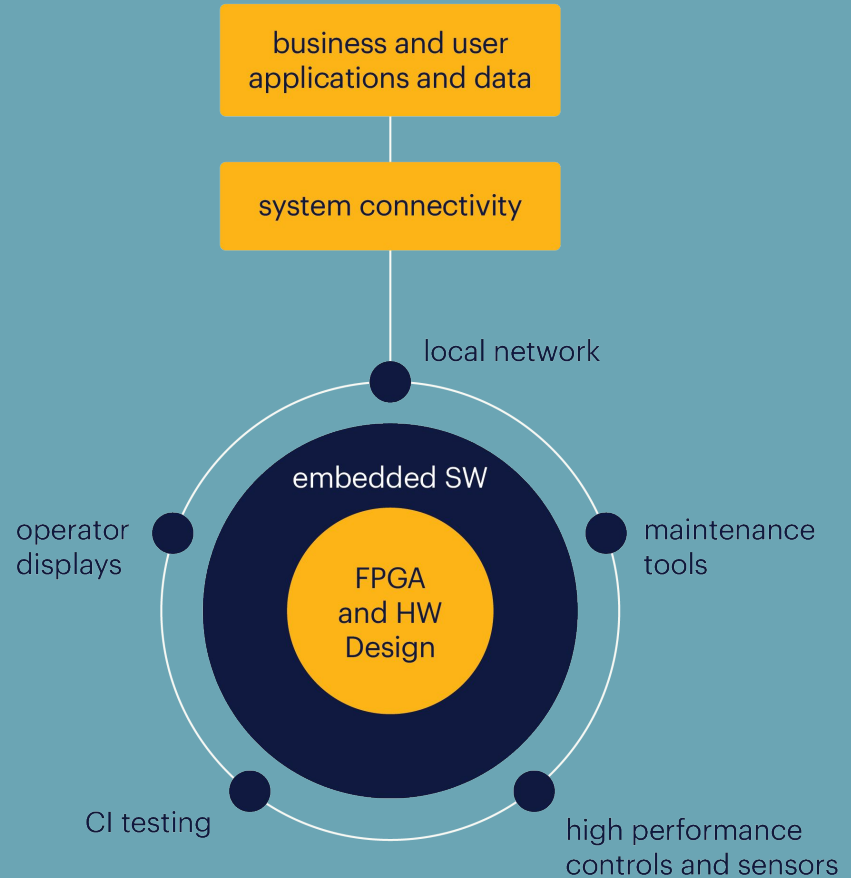


alignment of your DevOps or DevSecOps efforts with your IoT solution is critical to achieving velocity while managing and reducing risk.



# randstad top 7 common IoT issues.

- security
- privacy
- connectivity
- cost
- competency
- size and speed
- safety



# do's and don'ts.

## do's

- promote multi-disciplinary collaboration
- ensure business is an integral part of the “product” development
- revisit your architecture regularly
- evaluate and leverage your data to inform decisions
- consider scalability in your design
- ensure quick responses to product updates and customer support needs through CI/CD

## don'ts

- don't implement DevOps in a silo
- don't forget to plan for end-user support
- don't forget about asset management and the support and maintenance aspect of your solution
- don't let security and safety be an afterthought
- don't forget to take device deployment into account
- don't use “test” as a single component of your IoT lifecycle, but leverage continuous testing



thanks for attending.

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randstad

human forward.

