Secure Innovation

How Start-ups and Corporates (can) work together

Martin de Vries, Rabobank
Marc Barry, Westgate
Daniel Fangueiro, Vision Tech Lab
PvIB sessie - Veilig Innoveren – 15 maart 2018

Content

- 15 min Introduction
  - Rabobank
  - Westgate
  - Vision Tech Lab
- 45 min Open discussion on Challenges and Opportunities

Short introduction

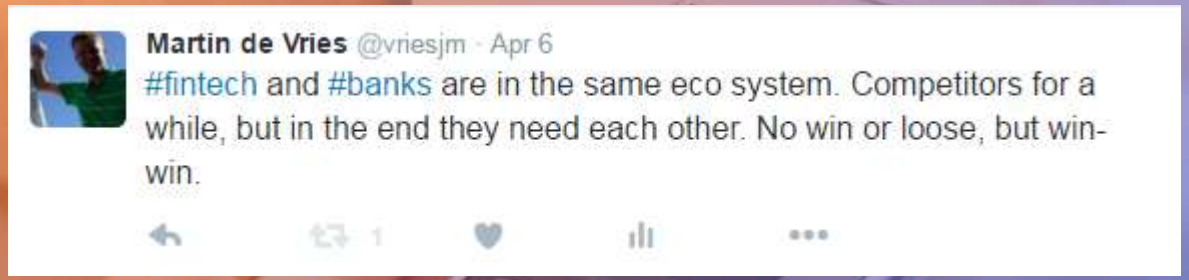
Martin de Vries

Information Security Officer since 2008
Focus on security & secure innovation

Rabobank

@vriesjm

martindevries



The challenge for Rabobank is

FINTEGRATION

Rabobank

COLLABORATION IS OPEN INNOVATION

Leveraging strengths

FinTech start-ups:
- Innovative ways to serve clients
- New business model innovations
- Access to new technologies
- Testbed for new opportunities

Rabobank:
- Access to customers
- Use of distribution channels
- Validation of solution
- Knowledge and network

Cyber Security Risk Review

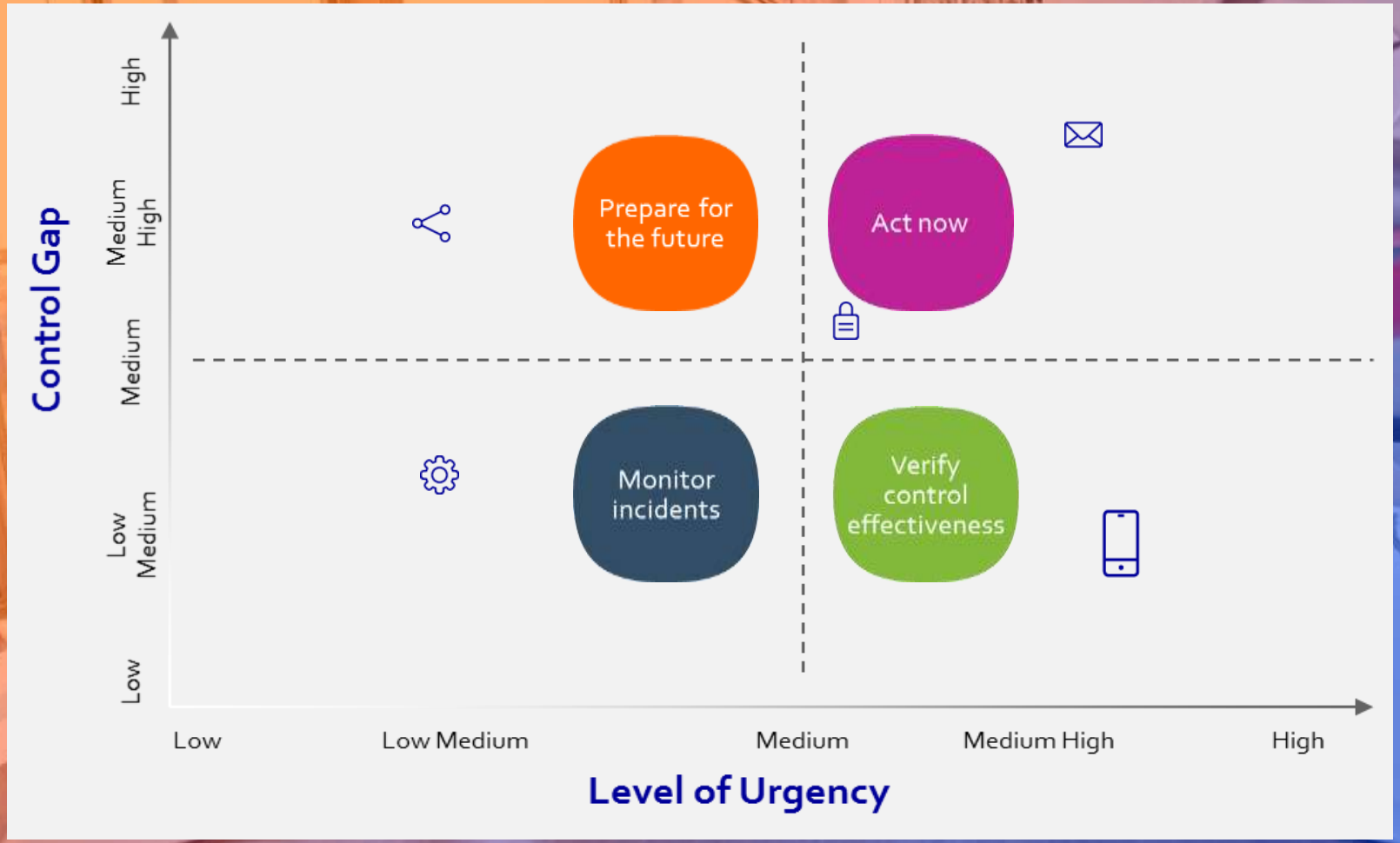
Rabobank experts help the start-up to gain insight in the Cyber Security Risks. Based on…

CSR²

- Cryptoware / Malware
- Overlay attacks
- Unsecure software (development)
- (D)Dos attacks
- Phishing / CxO fraud

Proposition
Channels used
Type of Customers

Rabobank

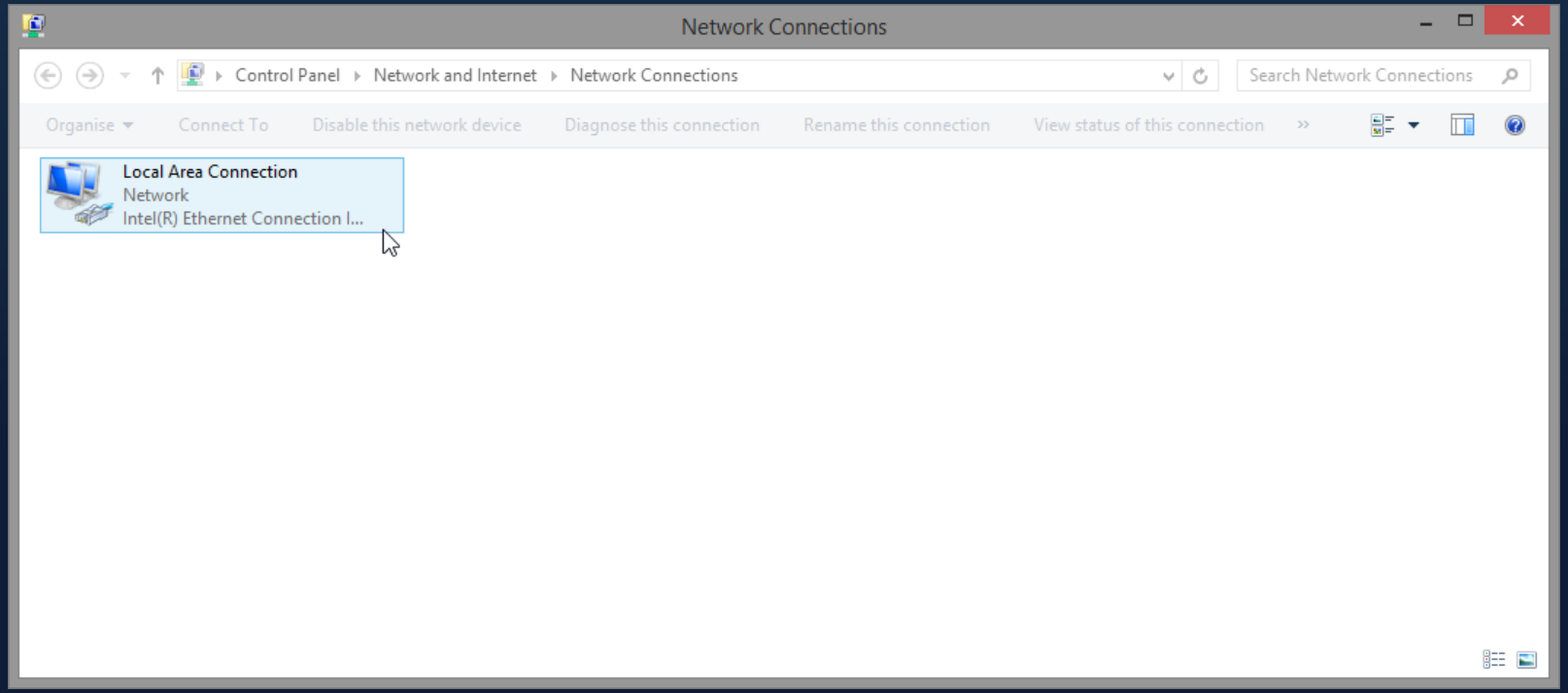

Control Gap
High
Medium High
Medium
Low Medium
Low
Prepare for the future
Act now
Monitor incidents
Verify control effectiveness
Low
Low Medium
Medium
Medium High
High
Level of Urgency

Westgate

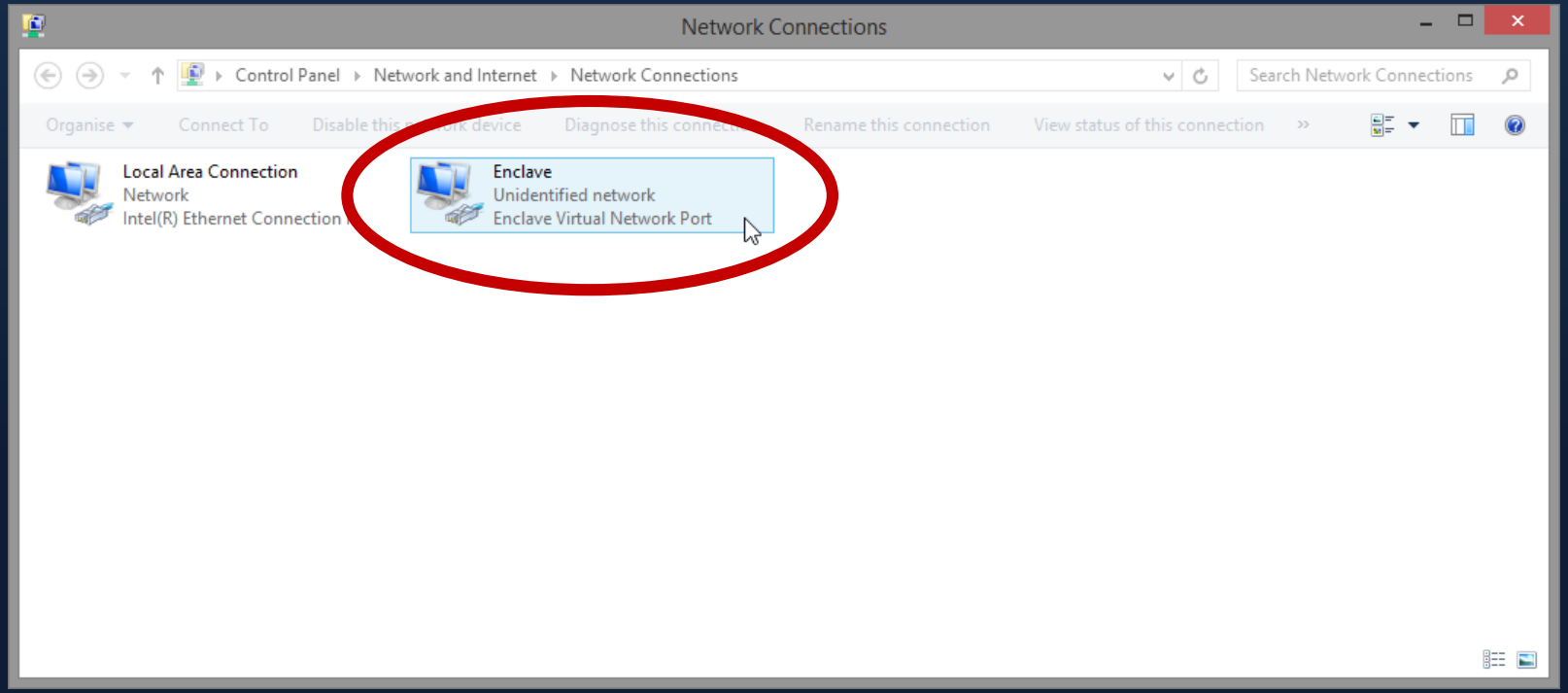
CYBER SECURITY

ENCLAVE

ENCLAVE


Network Connections
Control Panel
Network and Internet
Network Connections
Search Network Connections
Organise
Connect To
Disable this network device
Diagnose this connection
Rename this connection
View status of this connection
Local Area Connection
Network
Intel(R) Ethernet Connection I...

ENCLAVE


Network Connections
Control Panel
Network and Internet
Network Connections
Search Network Connections
Organise
Connect To
Rename this connection
View status of this connection
Local Area Connection
Network
Intel(R) Ethernet Connection
Enclave
Unidentified network
Enclave Virtual Network Port

Why?

Don’t change the network	Less risk, quicker deployment
End-to-end encryption	Data privacy
Mutual authentication	Easier than TLS
Peer-to-peer	Less burden on central servers
Outbound only	Keep the firewall closed
Certificates, not IP addresses	Easily migrate workloads

RDP

Workstation

2 x Laptops

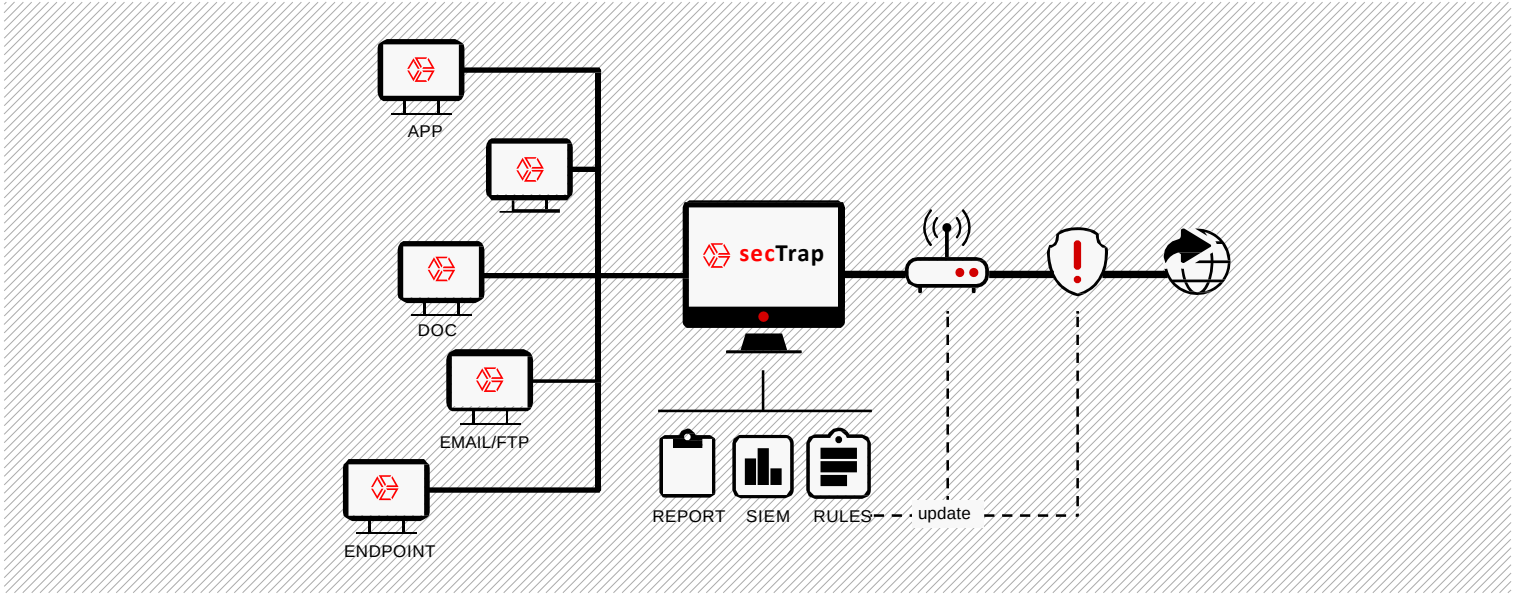
Use Cases

Quickly provision disaster recovery networks.
Quickly handle sensitive file transfers.
High availability backplane networks.
High availability clustered services.
Micro-segmentation.
Cloud vendor and location agility.
On-premise migration to cloud (and back).
Ship transaction logs offsite (or on-site).
Secure remote administration.
Real-time or batched data synchronisation.
Backup and restore data archiving.
Secure networks for N-Tier or microservice application connectivity.
Secure remote support and assistance.
Private DNS and peer discovery.
Cross-site messaging service.
Enabling multicast traffic on cloud provider networks for legacy banking applications.
IoT sensor administration networks.
Transport level security for APIs.
Isolating and protecting web applications.
Transient short term incidental connectivity.
Safely connect partner and supplier networks.
Transport forensic images for safe analysis.
Agile business networks for start-ups who are all mobile.
Secure offshore delivery services to transport source code and application secrets.
Safely expose internal systems to the outside world under strict time constraints (presentations, hackathons etc.)
Secure mirror environments for testing, running pilots which don't threaten core systems.
Isolated secure special purpose environments.
Isolation of building access and control networks.

VISION TECH LAB
THE CYBER INNOVATION COMPANY

<Virtual Appliance Solution>.

ARCHITECTURE DIAGRAM



DECOY APPLICATION/DOCUMENT

Progress

250.000€
Funds

Tests
Pilot

Product
80%

Partners
Experience

Secure Innovation

How Start-ups and Corporates (can) work together

Martin de Vries (martin.de.vries@rabobank.com)
Marc Barry (mbarry@westgatecyber.com)
Daniel Fangueiro (daniel.fangueiro@visiontechlab.com)

Westgate
CYBER SECURITY

VISION TECH LAB
THE CYBER INNOVATION COMPANY