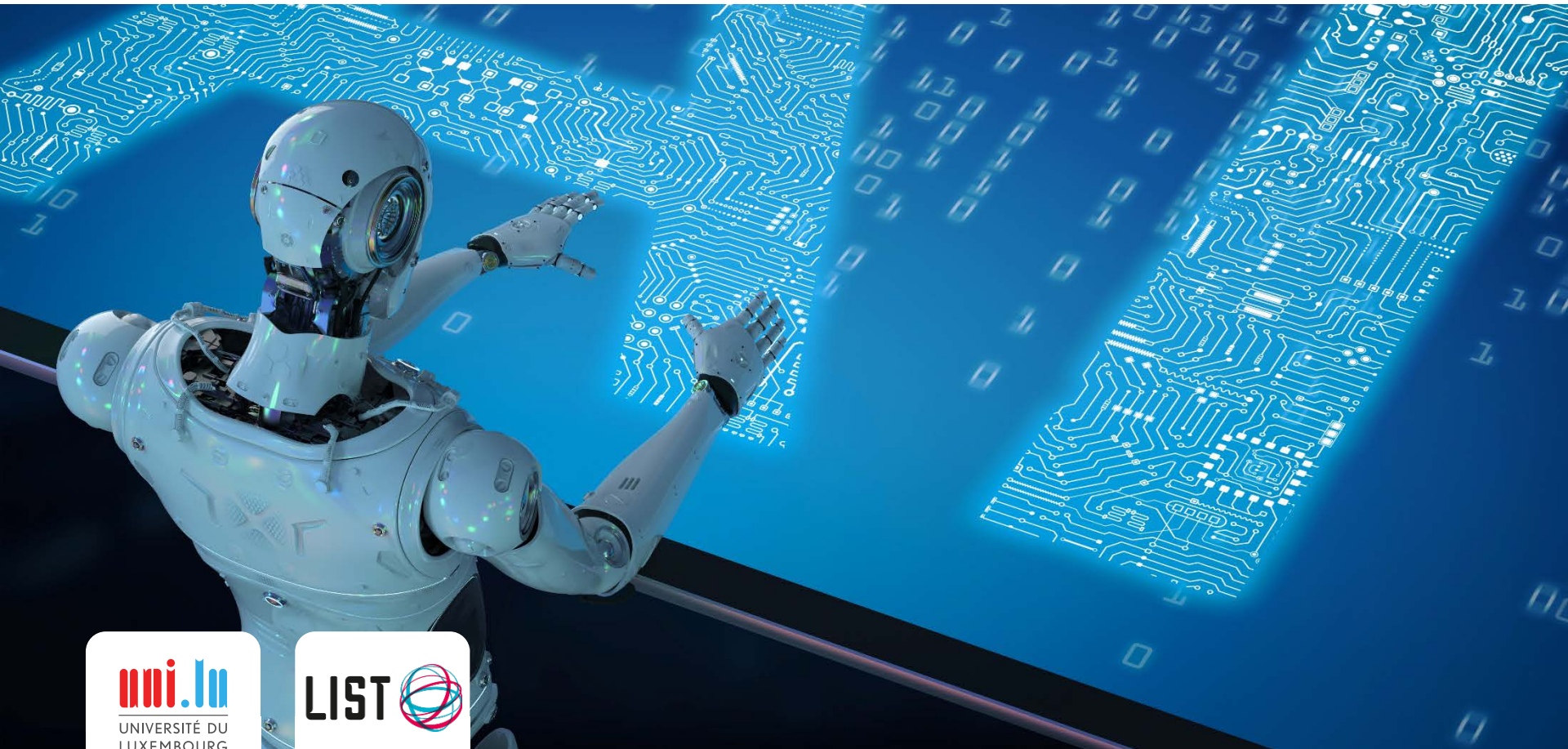


ISED 2019: New challenges for CISO



- A yearly one-day event co-organized by **University of Luxembourg** and **Luxembourg Institute of Science and Technology (LIST)**
- Sponsored by the **Club de la Sécurité de l'Information Luxembourg (CLUSIL)**, **Computer Science and Communications Research Unit (CSC)**, **Interdisciplinary Centre for Security, Reliability and Trust (SnT)** and **Luxembourg Institute of Science and Technology (LIST)**
- Conference day that aims sharing each year new knowledge on a hot-topic related to security and privacy
 - Primarily targets the **current and former students** of the professional MSSI Master
 - However ISED also provides an ideal forum where **academics and practitioners** can learn about the different facets of a key-topic, exchange, discuss ideas, and compare experiences

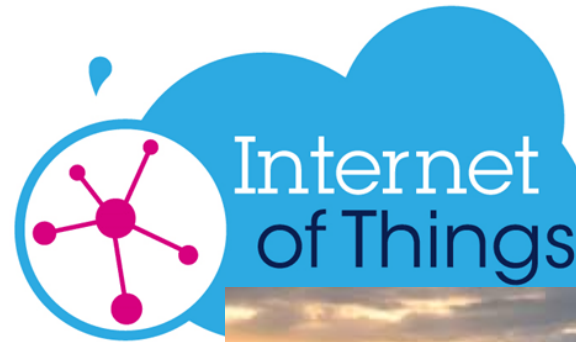
ISED CONFERENCE



360EquityInvestments and 149 others follow



Financial Times @FT · 2h
Uber faces a delay with its self-driving car programme after a **crash** in Arizona
on.ft.com/2nmG2kw



Example: fraud detection

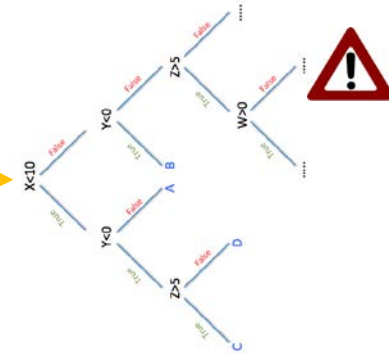
Transactions

Rule-based detection

Human analysis

Decision – block?

Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Address	External Transfer	Info
8884-170984-1	✓ PMS	889.00	ACCOUNT	*****	None	581966284776		
8796-170984-1	✓ PMS	827.00	*****	*****	None	581966284776		
0429-170984-1	✓ PMS	861.00	ANEX *****	*****	*****	1946212701		
0000-170984-1	✓ PMS	8103.00	ANEX *****	*****	*****	1480212701		
0129-090984-1	✓ PMS	8174.00	CHP *****	*****	*****	1480212701		



Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Address	External Transfer	Info
8884-170984-1	✓ PMS	889.00	ACCOUNT	*****	None	581966284776		
0429-170984-1	✓ PMS	861.00	ANEX *****	*****	*****	1946212701		
0000-170984-1	✓ PMS	8103.00	ANEX *****	*****	*****	1480212701		
0129-090984-1	✓ PMS	8174.00	CHP *****	*****	*****	1480212701		

Example: fraud detection

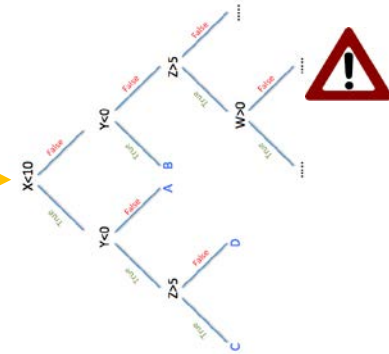
Transactions

Rule-based detection

Human analysis

Decision – block?

Transaction ID	Event	Amount	Payment Type	Account	Normalized Customer	Reference	External Transaction	Info
458U-07116-1	✓ PENDING	889.00	ACCOUNT CREDIT	Debit	None	583360247176		
579E-17085-1	✓ PENDING	827.00	AMERICAN EXPRESS	Merchant	John Sauer	None	18020000	
C32E-17089-1	✓ PENDING	801.00	AMERICAN EXPRESS	Merchant	Shanghai Museum	None	1949215807	
F00D-17086-1	✓ PENDING	5103.00	AMERICAN EXPRESS	Merchant	Emerson Museum	None	1482013701	
C12E-20095-1	✓ PENDING	8174.00	CHIP CARD	Merchant	Bank of Cuba	Varid	Tax:0000-4008-4	

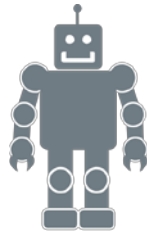


Transaction ID	Event	Amount	Payment Type	Account	Normalized Customer	Reference	External Transaction	Info
458U-07116-1	✓ PENDING	889.00	ACCOUNT CREDIT	Debit	None	583360247176		
C32E-17089-1	✓ PENDING	801.00	AMERICAN EXPRESS	Merchant	Shanghai Museum	None	1949215807	
F00D-17086-1	✓ PENDING	5103.00	AMERICAN EXPRESS	Merchant	Emerson Museum	None	1482013701	
C12E-20095-1	✓ PENDING	8174.00	CHIP CARD	Merchant	Bank of Cuba	Varid	Tax:0000-4008-4	

AI

ML-based detection

Transaction ID	Event	Amount	Payment Type	Account	Normalized Customer	Reference	External Transaction	Info
458U-07116-1	✓ PENDING	889.00	ACCOUNT CREDIT	Debit	None	583360247176		
579E-17085-1	✓ PENDING	827.00	AMERICAN EXPRESS	Merchant	John Sauer	None	18020000	
C32E-17089-1	✓ PENDING	801.00	AMERICAN EXPRESS	Merchant	Shanghai Museum	None	1949215807	
F00D-17086-1	✓ PENDING	5103.00	AMERICAN EXPRESS	Merchant	Emerson Museum	None	1482013701	
C12E-20095-1	✓ PENDING	8174.00	CHIP CARD	Merchant	Bank of Cuba	Varid	Tax:0000-4008-4	



Transaction ID	Event	Amount	Payment Type	Account	Normalized Customer	Reference	External Transaction	Info
458U-07116-1	✓ PENDING	889.00	ACCOUNT CREDIT	Debit	None	583360247176		
C32E-17089-1	✓ PENDING	801.00	AMERICAN EXPRESS	Merchant	Shanghai Museum	None	1949215807	
F00D-17086-1	✓ PENDING	5103.00	AMERICAN EXPRESS	Merchant	Emerson Museum	None	1482013701	
C12E-20095-1	✓ PENDING	8174.00	CHIP CARD	Merchant	Bank of Cuba	Varid	Tax:0000-4008-4	

Example: fraud detection

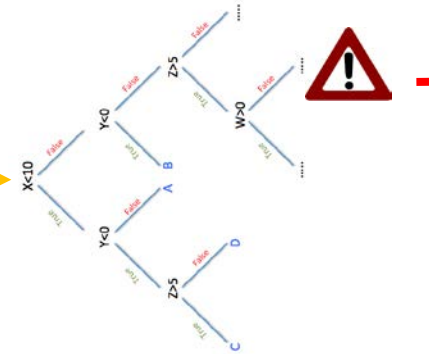
Transactions

Rule-based detection

Human analysis

Decision – block?

Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	\$89.00	ACCOUNT	ACCOUNT	None	587000047716	
5746-17089-1	✓ PND	\$27.50	AMERICAN EXPRESS	AMERICAN EXPRESS	None	1480212701	
0324-17089-1	✓ PND	\$61.00	AMERICAN EXPRESS	AMERICAN EXPRESS	Brandon Miskala	None	1480212701
1000-17089-1	✓ PND	\$103.00	AMERICAN EXPRESS	AMERICAN EXPRESS	Brandon Miskala	None	1480212701
0120-20095-1	✓ PND	\$174.00	CAFÉ	CAFÉ	None	7400000-0200-1	

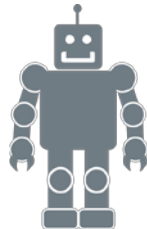


Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	\$89.00	ACCOUNT	ACCOUNT	None	587000047716	
5746-17089-1	✓ PND	\$27.50	AMERICAN EXPRESS	AMERICAN EXPRESS	None	1480212701	
0324-17089-1	✓ PND	\$61.00	AMERICAN EXPRESS	AMERICAN EXPRESS	Brandon Miskala	None	1480212701
1000-17089-1	✓ PND	\$103.00	AMERICAN EXPRESS	AMERICAN EXPRESS	Brandon Miskala	None	1480212701
0120-20095-1	✓ PND	\$174.00	CAFÉ	CAFÉ	None	7400000-0200-1	

AI

ML-based detection

Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	\$89.00	ACCOUNT	ACCOUNT	None	587000047716	
5746-17089-1	✓ PND	\$27.50	AMERICAN EXPRESS	AMERICAN EXPRESS	None	1480212701	
0324-17089-1	✓ PND	\$61.00	AMERICAN EXPRESS	AMERICAN EXPRESS	Brandon Miskala	None	1480212701
1000-17089-1	✓ PND	\$103.00	AMERICAN EXPRESS	AMERICAN EXPRESS	Brandon Miskala	None	1480212701
0120-20095-1	✓ PND	\$174.00	CAFÉ	CAFÉ	None	7400000-0200-1	

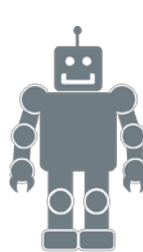


Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	\$89.00	ACCOUNT	ACCOUNT	None	587000047716	
5746-17089-1	✓ PND	\$27.50	AMERICAN EXPRESS	AMERICAN EXPRESS	None	1480212701	
0324-17089-1	✓ PND	\$61.00	AMERICAN EXPRESS	AMERICAN EXPRESS	Brandon Miskala	None	1480212701
1000-17089-1	✓ PND	\$103.00	AMERICAN EXPRESS	AMERICAN EXPRESS	Brandon Miskala	None	1480212701
0120-20095-1	✓ PND	\$174.00	CAFÉ	CAFÉ	None	7400000-0200-1	

Transactions

Decision – block?

Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	\$89.00	ACCOUNT	ACCOUNT	None	587000047716	
5746-17089-1	✓ PND	\$27.50	AMERICAN EXPRESS	AMERICAN EXPRESS	None	1480212701	
0324-17089-1	✓ PND	\$61.00	AMERICAN EXPRESS	AMERICAN EXPRESS	Brandon Miskala	None	1480212701
1000-17089-1	✓ PND	\$103.00	AMERICAN EXPRESS	AMERICAN EXPRESS	Brandon Miskala	None	1480212701
0120-20095-1	✓ PND	\$174.00	CAFÉ	CAFÉ	None	7400000-0200-1	



Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	\$89.00	ACCOUNT	ACCOUNT	None	587000047716	
5746-17089-1	✓ PND	\$27.50	AMERICAN EXPRESS	AMERICAN EXPRESS	None	1480212701	
0324-17089-1	✓ PND	\$61.00	AMERICAN EXPRESS	AMERICAN EXPRESS	Brandon Miskala	None	1480212701
1000-17089-1	✓ PND	\$103.00	AMERICAN EXPRESS	AMERICAN EXPRESS	Brandon Miskala	None	1480212701
0120-20095-1	✓ PND	\$174.00	CAFÉ	CAFÉ	None	7400000-0200-1	

Example: fraud detection

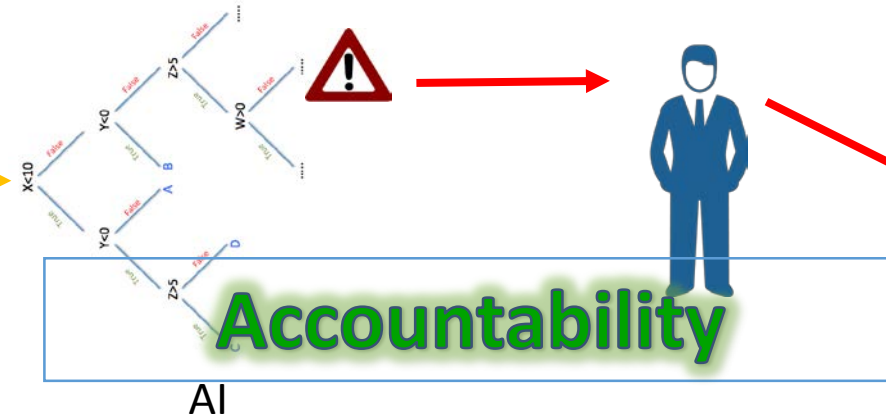
Transactions

Rule-based detection

Human analysis

Decision – block?

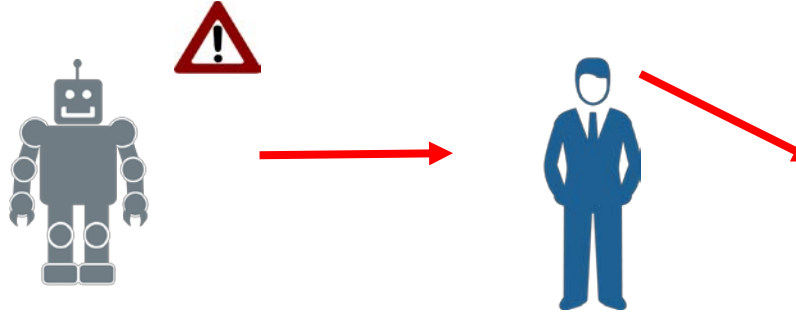
Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	PNB	889.00	ACCOUNT PROVISION	Debit	Debit	None	587000047716
4584-07116-1	PNB	889.00	ACCOUNT PROVISION	Debit	Debit	None	587000047716
0324-170816-1	PNB	81.00	AMEX ****0020	Withdraw	Brandon Miskovic	None	1460213701
1000-170816-1	PNB	5103.00	AMEX ****0020	Withdraw	Brandon Miskovic	None	1460213701
0120-200916-1	PNB	8174.00	Debit	Withdraw	Banka Ciba	Verd	Ta-00000-4000-1



Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	PNB	889.00	ACCOUNT PROVISION	Debit	Debit	None	587000047716
0324-170816-1	PNB	81.00	AMEX ****0020	Withdraw	Brandon Miskovic	None	1460213701
1000-170816-1	PNB	5103.00	AMEX ****0020	Withdraw	Brandon Miskovic	None	1460213701
0120-200916-1	PNB	8174.00	Debit	Withdraw	Banka Ciba	Verd	Ta-00000-4000-1

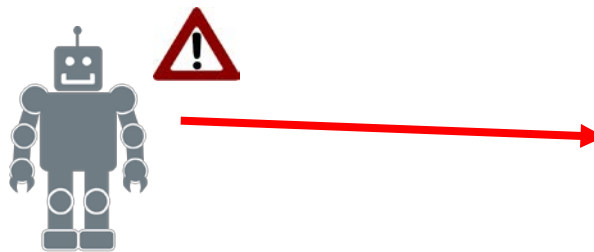
ML-based detection

Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	PNB	889.00	ACCOUNT PROVISION	Debit	Debit	None	587000047716
4584-07116-1	PNB	889.00	ACCOUNT PROVISION	Debit	Debit	None	587000047716
0324-170816-1	PNB	81.00	AMEX ****0020	Withdraw	Brandon Miskovic	None	1460213701
1000-170816-1	PNB	5103.00	AMEX ****0020	Withdraw	Brandon Miskovic	None	1460213701
0120-200916-1	PNB	8174.00	Debit	Withdraw	Banka Ciba	Verd	Ta-00000-4000-1



Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	PNB	889.00	ACCOUNT PROVISION	Debit	Debit	None	587000047716
0324-170816-1	PNB	81.00	AMEX ****0020	Withdraw	Brandon Miskovic	None	1460213701
1000-170816-1	PNB	5103.00	AMEX ****0020	Withdraw	Brandon Miskovic	None	1460213701
0120-200916-1	PNB	8174.00	Debit	Withdraw	Banka Ciba	Verd	Ta-00000-4000-1

Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	PNB	889.00	ACCOUNT PROVISION	Debit	Debit	None	587000047716
4584-07116-1	PNB	889.00	ACCOUNT PROVISION	Debit	Debit	None	587000047716
0324-170816-1	PNB	81.00	AMEX ****0020	Withdraw	Brandon Miskovic	None	1460213701
1000-170816-1	PNB	5103.00	AMEX ****0020	Withdraw	Brandon Miskovic	None	1460213701
0120-200916-1	PNB	8174.00	Debit	Withdraw	Banka Ciba	Verd	Ta-00000-4000-1



Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	PNB	889.00	ACCOUNT PROVISION	Debit	Debit	None	587000047716
0324-170816-1	PNB	81.00	AMEX ****0020	Withdraw	Brandon Miskovic	None	1460213701
1000-170816-1	PNB	5103.00	AMEX ****0020	Withdraw	Brandon Miskovic	None	1460213701
0120-200916-1	PNB	8174.00	Debit	Withdraw	Banka Ciba	Verd	Ta-00000-4000-1

Example: fraud detection

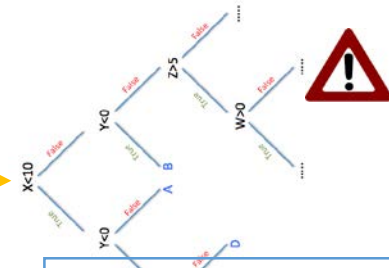
Transactions

Rule-based detection

Human analysis

Decision – block?

Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	889.00	ACCOUNT	ACCOUNT	Daily	None	587000247716
5746-17085-1	✓ PND	82.70	AMEX	AMEX	Bank of America	None	148213701
0324-17081-1	✓ PND	81.00	AMEX	AMEX	Bank of America	None	148213701
1000-17085-1	✓ PND	5103.00	AMEX	AMEX	Bank of America	None	148213701
0120-20019-1	✓ PND	8718.00	Card	Bank of America	Bank of America	None	7400000-0000-1



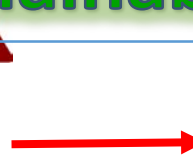
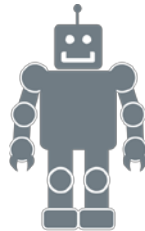
Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	889.00	ACCOUNT	ACCOUNT	Daily	None	587000247716
5746-17085-1	✓ PND	82.70	AMEX	AMEX	Bank of America	None	148213701
0324-17081-1	✓ PND	81.00	AMEX	AMEX	Bank of America	None	148213701
1000-17085-1	✓ PND	5103.00	AMEX	AMEX	Bank of America	None	148213701
0120-20019-1	✓ PND	8718.00	Card	Bank of America	Bank of America	None	7400000-0000-1

Accountability

AI
ML-based detection

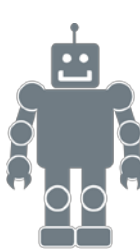
Explainability

Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	889.00	ACCOUNT	ACCOUNT	Daily	None	587000247716
5746-17085-1	✓ PND	82.70	AMEX	AMEX	Bank of America	None	148213701
0324-17081-1	✓ PND	81.00	AMEX	AMEX	Bank of America	None	148213701
1000-17085-1	✓ PND	5103.00	AMEX	AMEX	Bank of America	None	148213701
0120-20019-1	✓ PND	8718.00	Card	Bank of America	Bank of America	None	7400000-0000-1



Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	889.00	ACCOUNT	ACCOUNT	Daily	None	587000247716
5746-17085-1	✓ PND	82.70	AMEX	AMEX	Bank of America	None	148213701
0324-17081-1	✓ PND	81.00	AMEX	AMEX	Bank of America	None	148213701
1000-17085-1	✓ PND	5103.00	AMEX	AMEX	Bank of America	None	148213701
0120-20019-1	✓ PND	8718.00	Card	Bank of America	Bank of America	None	7400000-0000-1

Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	889.00	ACCOUNT	ACCOUNT	Daily	None	587000247716
5746-17085-1	✓ PND	82.70	AMEX	AMEX	Bank of America	None	148213701
0324-17081-1	✓ PND	81.00	AMEX	AMEX	Bank of America	None	148213701
1000-17085-1	✓ PND	5103.00	AMEX	AMEX	Bank of America	None	148213701
0120-20019-1	✓ PND	8718.00	Card	Bank of America	Bank of America	None	7400000-0000-1



Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	889.00	ACCOUNT	ACCOUNT	Daily	None	587000247716
5746-17085-1	✓ PND	82.70	AMEX	AMEX	Bank of America	None	148213701
0324-17081-1	✓ PND	81.00	AMEX	AMEX	Bank of America	None	148213701
1000-17085-1	✓ PND	5103.00	AMEX	AMEX	Bank of America	None	148213701
0120-20019-1	✓ PND	8718.00	Card	Bank of America	Bank of America	None	7400000-0000-1

Example: fraud detection

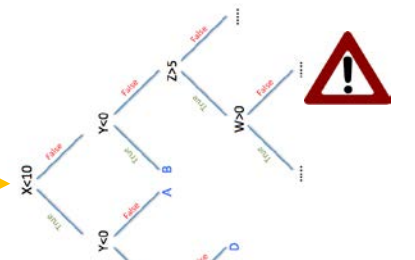
Transactions

Rule-based detection

Human analysis

Decision – block?

Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	PNB	889.00	ACCOUNT	ACCOUNT	Daily	None	587000047716
5796-17086-1	PNB	817.00	AMEX	AMEX	Bank	None	1480212701
0329-17086-1	PNB	817.00	AMEX	AMEX	Bank	None	1480212701
1000-17086-1	PNB	5103.00	AMEX	AMEX	Bank	None	1480212701
0129-28095-1	PNB	817.00	CHP	CHP	Bank	None	7400000-0200-1

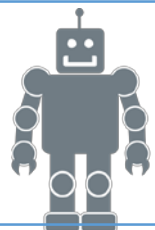


Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	PNB	889.00	ACCOUNT	ACCOUNT	Daily	None	587000047716
5796-17086-1	PNB	817.00	AMEX	AMEX	Bank	None	1480212701
0329-17086-1	PNB	817.00	AMEX	AMEX	Bank	None	1480212701
1000-17086-1	PNB	5103.00	AMEX	AMEX	Bank	None	1480212701
0129-28095-1	PNB	817.00	CHP	CHP	Bank	None	7400000-0200-1

Accountability

AI
ML-based detection
Explainability

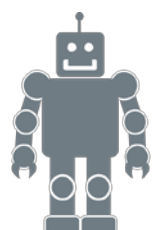
Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	PNB	889.00	ACCOUNT	ACCOUNT	Daily	None	587000047716
5796-17086-1	PNB	817.00	AMEX	AMEX	Bank	None	1480212701
0329-17086-1	PNB	817.00	AMEX	AMEX	Bank	None	1480212701
1000-17086-1	PNB	5103.00	AMEX	AMEX	Bank	None	1480212701
0129-28095-1	PNB	817.00	CHP	CHP	Bank	None	7400000-0200-1



Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	PNB	889.00	ACCOUNT	ACCOUNT	Daily	None	587000047716
5796-17086-1	PNB	817.00	AMEX	AMEX	Bank	None	1480212701
0329-17086-1	PNB	817.00	AMEX	AMEX	Bank	None	1480212701
1000-17086-1	PNB	5103.00	AMEX	AMEX	Bank	None	1480212701
0129-28095-1	PNB	817.00	CHP	CHP	Bank	None	7400000-0200-1

Robustness

Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	PNB	889.00	ACCOUNT	ACCOUNT	Daily	None	587000047716
5796-17086-1	PNB	817.00	AMEX	AMEX	Bank	None	1480212701
0329-17086-1	PNB	817.00	AMEX	AMEX	Bank	None	1480212701
1000-17086-1	PNB	5103.00	AMEX	AMEX	Bank	None	1480212701
0129-28095-1	PNB	817.00	CHP	CHP	Bank	None	7400000-0200-1



Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	PNB	889.00	ACCOUNT	ACCOUNT	Daily	None	587000047716
5796-17086-1	PNB	817.00	AMEX	AMEX	Bank	None	1480212701
0329-17086-1	PNB	817.00	AMEX	AMEX	Bank	None	1480212701
1000-17086-1	PNB	5103.00	AMEX	AMEX	Bank	None	1480212701
0129-28095-1	PNB	817.00	CHP	CHP	Bank	None	7400000-0200-1

Example: fraud detection

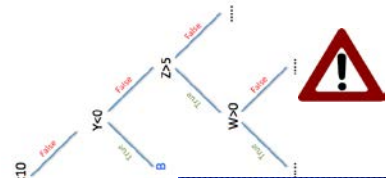
Transactions

Rule-based detection

Human analysis

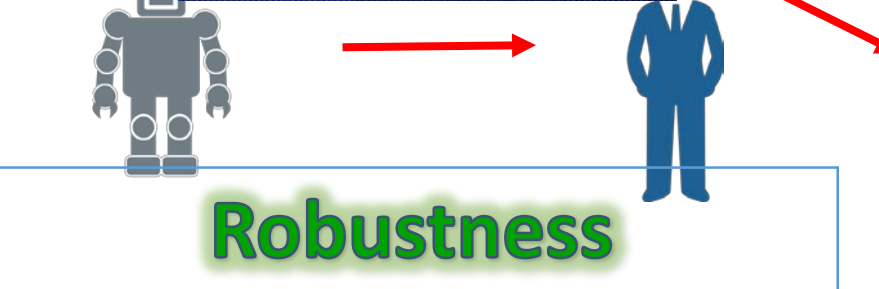
Decision – block?

Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	889.00	ACCOUNT	ACCOUNT	Daily	None	58700007176
5746-17085-1	✓ PND	817.00	AMEX	AMEX	Bank	None	148213701
0324-17081-1	✓ PND	81.00	AMEX	AMEX	Bank	None	148213701
1000-17085-1	✓ PND	5103.00	AMEX	AMEX	Bank	None	148213701
0120-20019-1	✓ PND	8718.00	CAF	CAF	Bank	None	7400004-0204-1



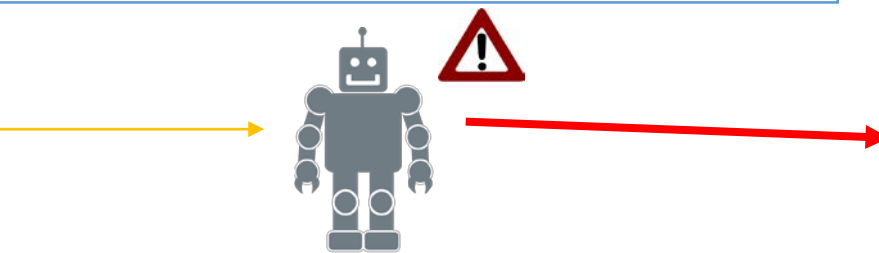
Transaction ID	Event	Amount	Payment Type	Account	Payment Customer	Gateway	External Transac. Info
4584-07116-1	✓ PND	889.00	ACCOUNT	ACCOUNT	Daily	None	58700007176
0324-17081-1	✓ PND	81.00	AMEX	AMEX	Bank	None	148213701
1000-17085-1	✓ PND	5103.00	AMEX	AMEX	Bank	None	148213701
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- Generally new technologies are presented in the perspective of potential new vulnerabilities / extension of the attack surface of the organisation
- In this conference, we would like to investigate if the opposite (new technologies in support of the CISO) can also be true.
- **How new/emerging technologies can support the work of the CISO, especially (but non only) Artificial Intelligence?**

Time	Title & Speaker
9:00	Welcome and opening <i>Yves le Traon, Professor, University of Luxembourg</i> <i>Nicolas Mayer, Senior R&T Associate at IT for Innovative Services (ITIS), LIST</i>
9:15	Machine Learning in a nutshell <i>Tégawendé Bissyandé, Research Scientist, University of Luxembourg</i>
9:45	Artificial intelligence in banks: business opportunities and security compliance: the case of BGL <ul style="list-style-type: none"><i>Anne Goujon, Director of Data Science Lab, BGL BNP Paribas: the business innovation's viewpoint</i><i>Grégory Nou, CISO, BGL BNP Paribas: the CISO's viewpoint</i><i>David Hagen, Head of IT Supervision and Support PSF, CSSF: the regulator's viewpoint</i>
11:00	Coffee break
11:15	Challenge for a big company to adopt AI (Artificial intelligence – Machine learning) vs traditional tools <i>Luc Cottin, CISO, Alter Domus</i>

AGENDA (2/2)

Time	Title & Speaker
11:45	Signed, sealed, delivered... digitally - the legal value of digital exchanges <i>Jean-Yves Mathieu, CISO</i>
12:15	Lunch
13:30	New technologies – buzzwords or true CISO helpers? <i>Emanuel Tanase, Global CISO, Lombard International</i>
14:15	AI for Cybersecurity : Separating the wheat from the chaff <i>Tewfik Toum, Principal Advisor, Technology & Business Services, IBM</i>
15:00	Coffee break
15:15	Panel discussion <i>Moderator: Bertrand Lathoud, Senior CyberSecurity Advisor, SECURITYMADEIN.LU</i>
15:45	Closing