



European Innovation Day 2018

October 15, 2018

Yan-Tarō CLOCHARD – クロシャル 威安太郎

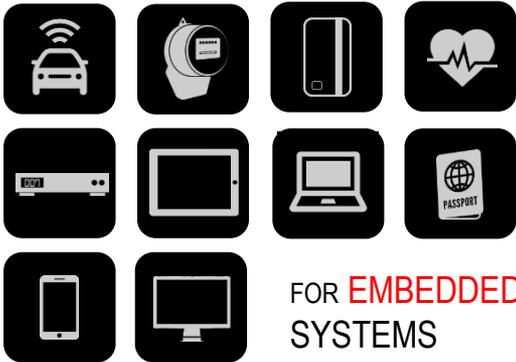
Director, Secure-IC Japan & Head of Sales North Asia

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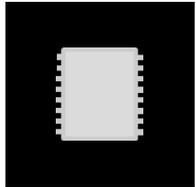
■ OUR CORE BUSINESS

WHAT
DO WE DO?

SECURITY
TECHNOLOGIES



FOR
WHOM?



CHIPSET/DEVICE
VENDORS



IC DESIGN
HOUSES



CERTIFICATION
LABS



GOVERNMENTAL
AGENCIES

FOR
WHICH MARKETS?

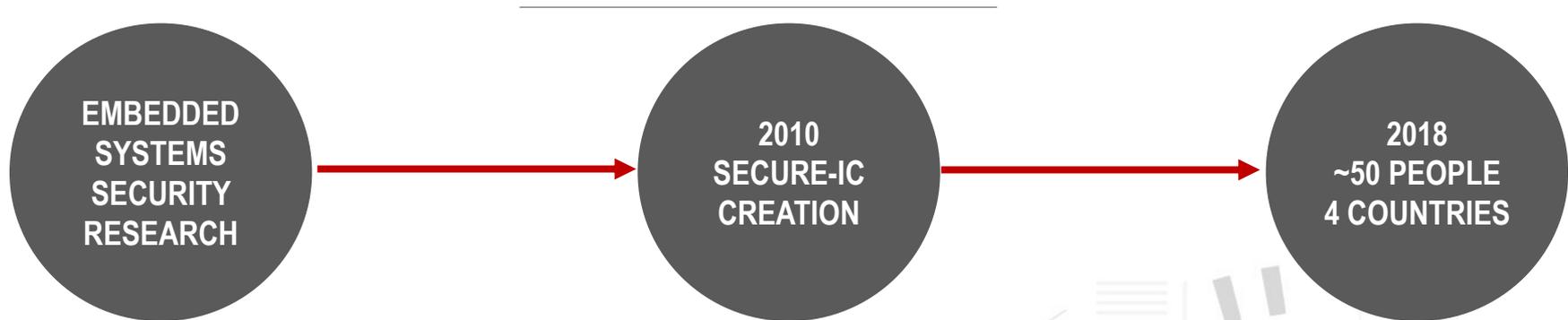


OUR CHALLENGE

How to secure billions of connections between embedded systems and connected objects in multiple market verticals and against permanently evolving threats?

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■ THE COMPANY



MORE THAN
15 YEARS OF RESEARCH

MORE THAN
200 PUBLICATIONS

SPIN-OFF FROM
INSTITUT MINES-TELECOM



SECURE-ic
THE SECURITY SCIENCE COMPANY



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■ Co-founders



Hassan Triqui

CEO, EE Engineer & MBA

Senior Executive at Thales, Thomson & Technicolor, Nextamp (start-up)



Philippe Nguyen, PhD

COO, Engineer & PhD

Senior Scientist at Thales, Technicolor, Thomson, Nextamp (co-founder)



Laurent Sauvage, PhD

Scientific Advisor at Secure-IC

Agrégé in EE & PhD

Head of Security Lab at IMT (*)

(*) IMT – Institut Mines Télécom

Sylvain Guilley, PhD

CTO, Engineer (X97), PhD, HDR

Scientific Advisor

Ingénieur en Chef des Mines

Associate Professor at IMT and ENS Ulm



Jean-Luc Danger

Scientific Advisor at Secure-IC

Head of HW Safety & Security Lab at IMT

Scientific Director at IMT

Adjunct Professor at Chinese Academy of Sciences



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■ OUR PRESENCE

Key facts

- **>100 customers**
- **20 countries on the 5 continents**
- **>1 Billion IP deployed every Quarter**

Field proven experience

- **WorldWide customer base with a broad range of applications and markets including:**
 - Top worldwide smartphone manufacturer (AP)
 - Subway real-time transaction servers / smart card
 - Set-Top box and broadcasting equipment providers
 - IoT/ Smart meters providers
 - TPM manufacturer (Trusted Platform Module)
 - Memory providers
 - Automotive chipsets designers
 - Military equipment and governments
 - Passport/ID providers
 - Security laboratories
 - ...

SECURE-IC in Japan (established 2016)

- Strong ties with Japan (scientific links and customers)
- GOAL: develop our regional customer base and ecosystems
- Future collaboration potential for joint R&D

FRENCH TECH
TOKYO



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■ BUSINESS LINES

Threat Protection PROTECT

SECURYZR

Threat Analysis EVALUATE

LABORYZR

Think Ahead SERVICE & CERTIFY

EXPERTYZR



TUNABLE CRYPTOGRAPHY



HIGH-QUALITY RANDOM
NUMBER GENERATION



ANTI-TAMPER & ATTACK DETECTION



SECRET STORAGE (PUF)
ROOT OF TRUST



CONTENT PROTECTION



CUTTING-EDGE TECHNOLOGIES

- AI for security policy
- Cyber attack detection in HW
- Post quantum crypto



PRE-SILICON EVALUATION
(DESIGN)



POST-SILICON
EVALUATION



SOFTWARE SECURITY
EVALUATION



THOUGHT LEADERSHIP
(ISO standards, etc.)



TAILORED STUDIES



SECURITY TRAININGS



CERTIFICATION SUPPORT

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■ **EVALUATE** – THE SECURITY SCIENCE FACTORY @SECURE-IC

Threat Analysis
EVALUATE

LABORYZR

- Security analysis laboratory for Embedded systems @Rennes, Paris, Singapore



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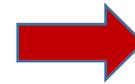
■ SCIENTIFIC LEADERSHIP AS A COMPETITIVE ADVANTAGE



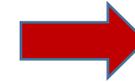
- 20+ joint scientific publications with Japanese partners
 - Joint standardization (ISO, etc.)
 - R&D projects
 - Thought leadership efforts
 - FR/Japan cybersecurity research initiative (IoT security)
 - 5G Global event in Tokyo
 - Involved in Japanese national projects
-
- **Current activities at ISO**
 - Equipment for non-invasive attacks: ISO/IEC 20085
 - Physically Unclonable Functions: ISO/IEC 20897
 - White-Box Cryptography: ISO/IEC SP, SC27/WG3 N1367
 - Connected Car Cybersecurity: ISO/TC 022/SC 032/WG 11

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■ END-TO-END SECURITY



One-stop-shop for security



Technology leadership



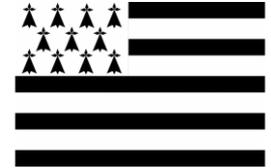
Tailored support

Future potential collaborations

- Joint R&D
- Researcher recruitment
- Co-hosting of PhD students/researchers

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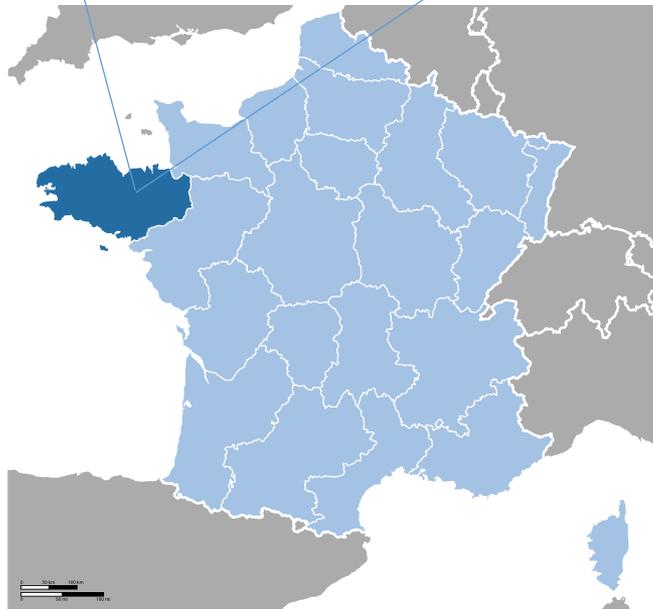
■ ABOUT SECURE-IC



PÔLE D'EXCELLENCE
CYBER



SECURE-IC
THE SECURITY SCIENCE COMPANY



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THANKS FOR YOUR ATTENTION

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