

Strategic Cybersecurity Research and Support for Innovation in Industry

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INDUSTRY FEEDBACK
(e.g. April 2019)



INTERNATIONAL
SCIENTIFIC ADVISORY
BOARD (July 2019)

(Potentially) *different audiences* for different research tracks



Secure Software & Applications



Security Services



System & Infrastructure Security



Technology Building Blocks



TRACK 01



Secure
Software
&
Applications

- THEME 1
Secure Software Development Life Cycle (SDLC)
- THEME 2
Program Verification and Security Testing
- THEME 3
Secure Programming Languages & Secure Compilation

TRACK 02



Security Services

- THEME1
Identity Management and Authentication
- THEME 2
Authorization and Audit
- THEME3
Advanced Encryption Techniques and Data Access Middleware
- THEME4
Policy and Regulation

TRACK 03



System
&
Infrastructure
Security

- THEME 1
System Security
- THEME 2
Network Security
- THEME 3
Security Monitoring and Management

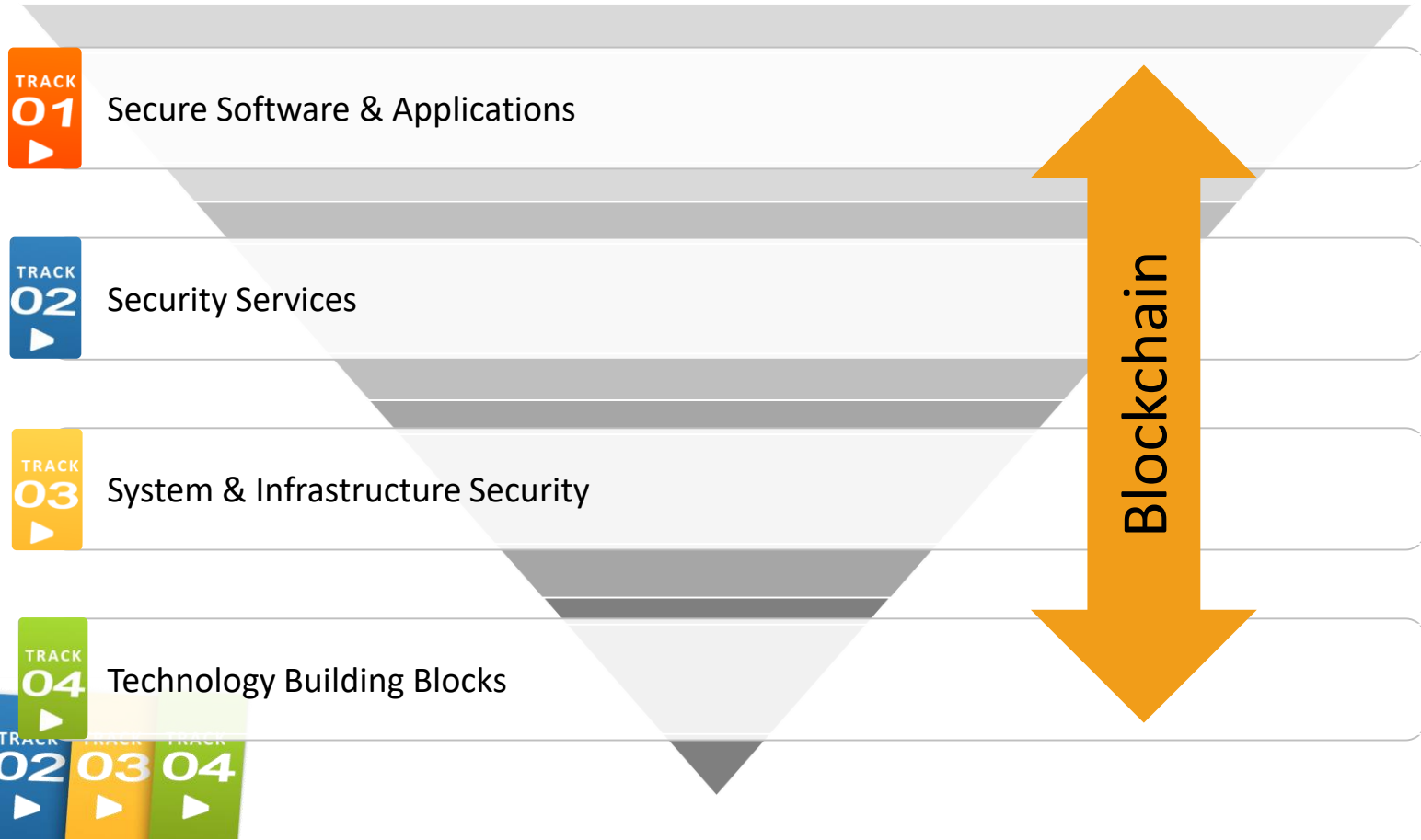
TRACK 04



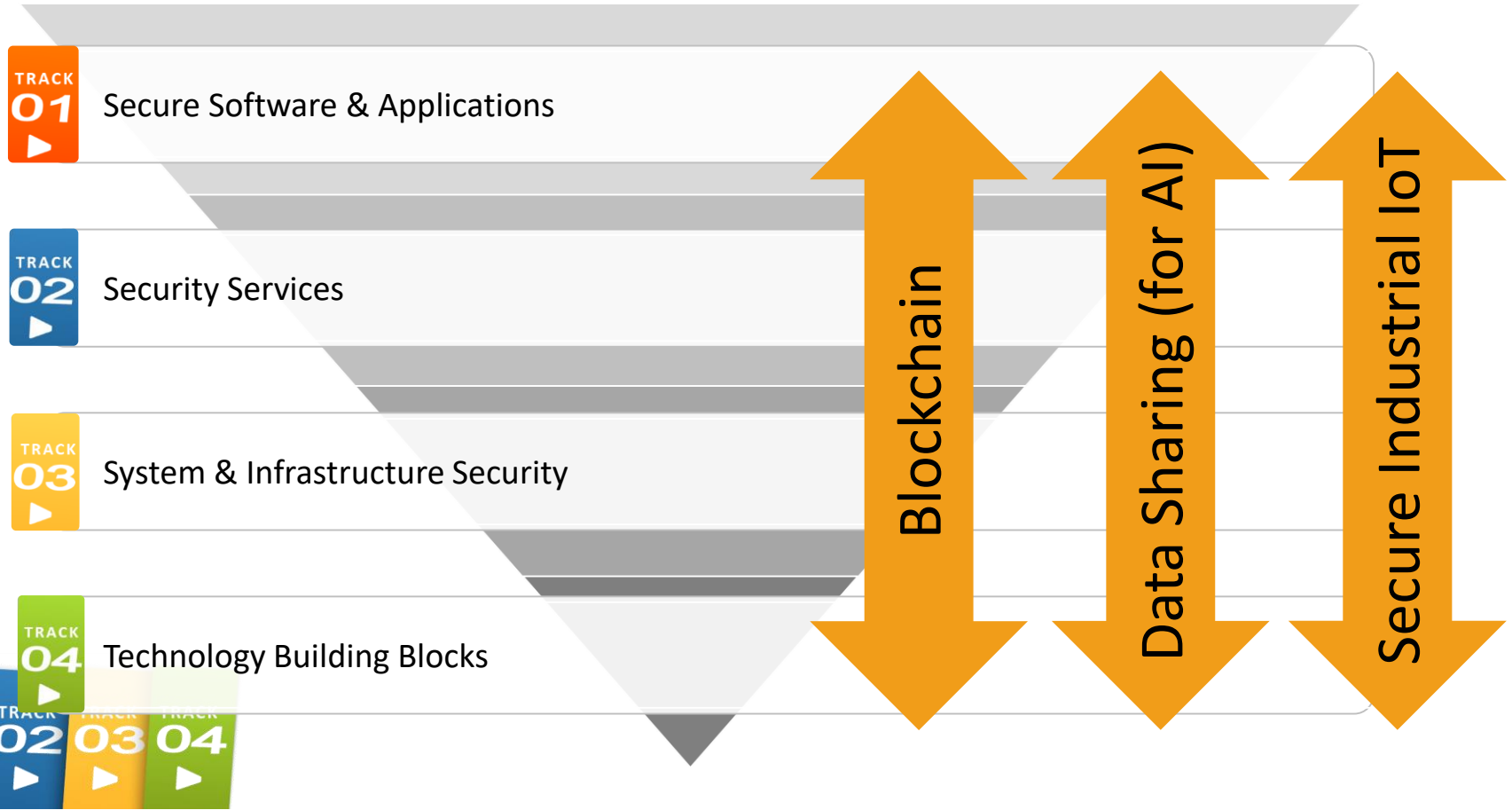
Technology
Building
Blocks

- THEME 1
Secure hardware
- THEME 2
Cryptographic algorithms
- THEME 3
Cryptographic protocols
- THEME 4
Secure and efficient cryptographic implementations

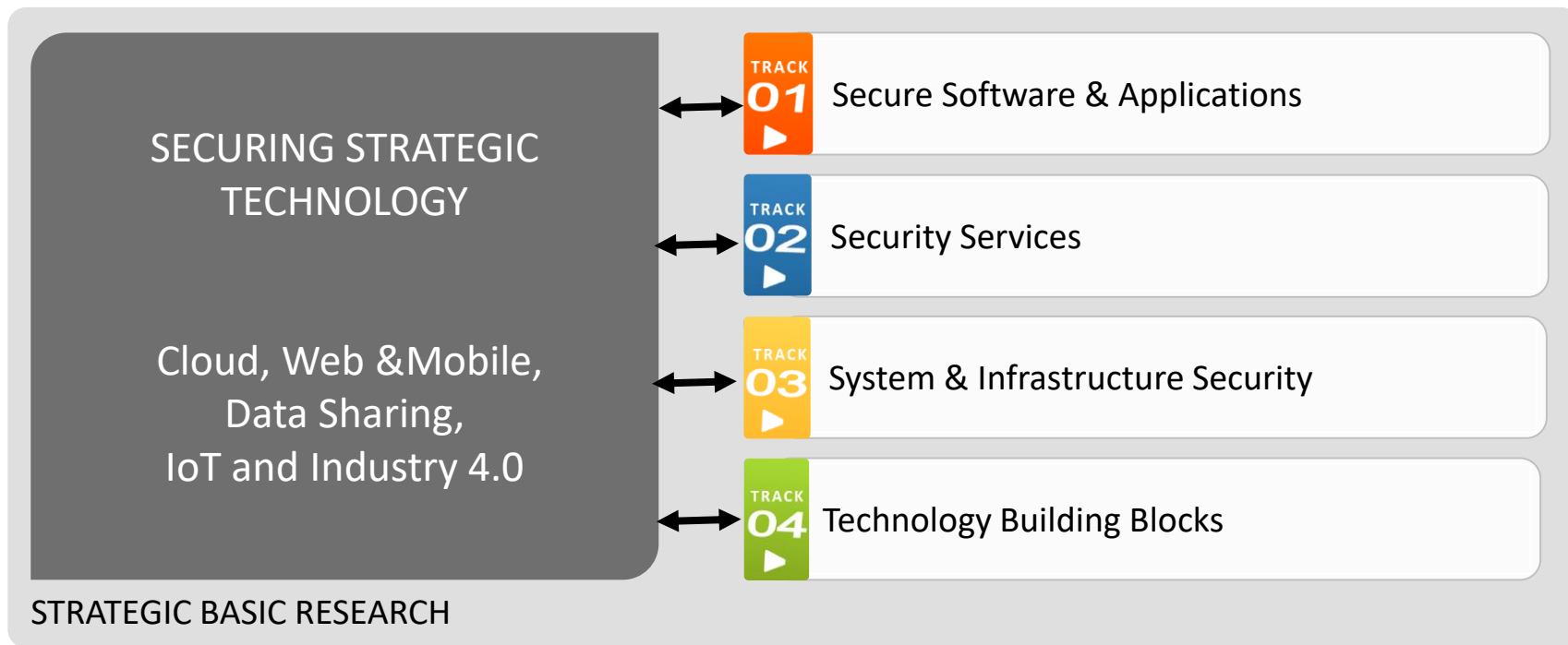
Industry projects potentially benefit from multiple tracks!



Example in *all* markets (health, fintech, ICS, ...)



Prototypes and environments that combine multiple results

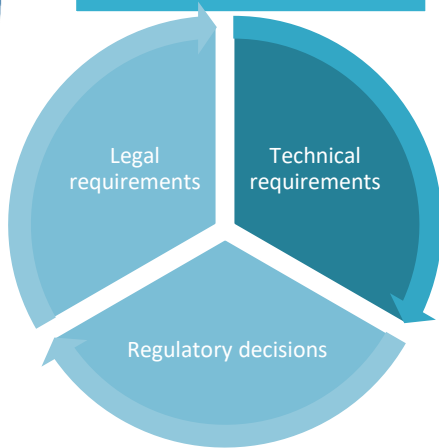


A note on policy and regulations: a growing concern

TRACK 02



Security Services



EU Council Directive
Critical
Infrastructures
(2008)

EU Cybercrime
Directive
(2013)

PSD2 Directive (2015)

EU NIS Directive
(2016)

General Data
Protection Regulation
(2016)

Free-flow of Non-
personal Data
Regulation
(2018)

European Electronic
Communications
Code
(2018)

ePrivacy Regulation
(20xx?)

Directive on Open
Data and PSI
(2019)

Cybersecurity Act
(2019)

STRATEGIC BASIC
RESEARCH



COLLABORATIVE
RESEARCH

Note: this applies to security providers and security consumers
Thank you