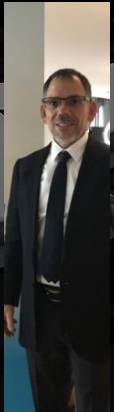




JACQUES FRANCOEUR

SILICON VALLEY SECURITY INDUSTRY THOUGHT LEADER: 20+ YOY



Jacques
Francoeur

jacques.francoeur@sjsu.edu

US Delegate 2018/19, ITU Study Group 17: Security

- US Contribution: **Unified Security Model**
- Q14: DLT Security, **Expression** integration into DLT Threats
- Former **Vice Chair**, ITU FG: Cryptocurrencies including **Digital Fiat Currency**, co-chair Security Working Group, Deliverable: **Protection Assurance of Digital Currencies**

<https://www.linkedin.com/in/innoonewetrust/>

MBA: Concordia University
M.A.Sc.: University of Toronto
Institute for Aerospace Studies
B.A.Sc.: University of Toronto,
Engineering Science,
Aerospace Engineering

- **Founder & CEO**, Spheric Security Solutions
Technology | Lab | Academy
- **Faculty Cyber Executive-in-Residence**
San Jose State University

JACQUES FRANCOEUR

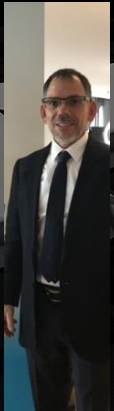
SILICON VALLEY SECURITY INDUSTRY THOUGHT LEADER: 20+ YOE

Speaking as:

Jacques Francoeur,
Citizen of the world

30+ YOE in High Technology

20+ YOE Silicon Valley Expert



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CYBERSWISS
THE PRIVACY CORPORATION

www.cyberswiss.com

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The Privacy Gateway™
Building Trust in the Digital Economy

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CyberSwiss & The Privacy Gateway
Founder, 1997/98

Canadian Space Agency
Scientist, Program Manager



Montreal

University of Toronto
B.A.Sc. & M.A.Sc.
Aerospace Engineering



San Jose State University
Cyber Executive-in-Residence

Security Genome Project.Org



SG17 Security FG-DFC



ITU-T FG-DFC

ITU-T Focus Group Digital Currency including Digital Fiat Currency

Protection Assurance for Digital Currencies

Method for Achieving the Required Security Assurance Level for Protecting Digital Currency Including Digital Fiat Currency with High Confidence

ITU-T Focus Group Digital Currency including Digital Fiat Currency

Method for Achieving the Required Security Assurance Level for Protecting Digital Currency Including Digital Fiat Currency with High Confidence

E&Y:
Advisory:
IT Risk & Assurance
COE



Spheric Security Solutions:
CEO & Founder



Bay Area CSO Council:
Co-Founder & ED



SAIC: Sr. Director: Identify & Information Assurance



TekTran Consulting
Founder

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Creating trusted end-to-end electronic business processes

TrustEra



ProofSpace
Digital Evidence Preservation
Chief Evangelist



Adobe:
Information Assurance



NetFront Certificate Authority
Director: Digital Trust

To Silicon Valley
1999



KPMG: National Data Privacy Lead (pre EU Data Privacy Directive)



The Failure of Security to Protect

*Protection for the
Rich*

Security Inclusion Now!

*Protection for **All***

Protection for the **Rich**

New Equifax CEO (post Breach) states in congressional hearing* March 19, 2019

investing + **\$1,250,000,000** over 3 years,
hiring + **1000** experts

How **much** protection?



Protection for **All**

Emerging World

“To **Connect** or not to **Connect**”
to Developed World”

- while **maintaining** protection

Drastic **capital** inequalities

- **inability** to invest in “**enough**” security



Protection for **All**

Everything going
“**To Connect** or not **to Connect**”
to Everything?”

- while **maintaining** protection

Drastic **skill's access** inequalities
inability-to-deliver “**quality**” of security

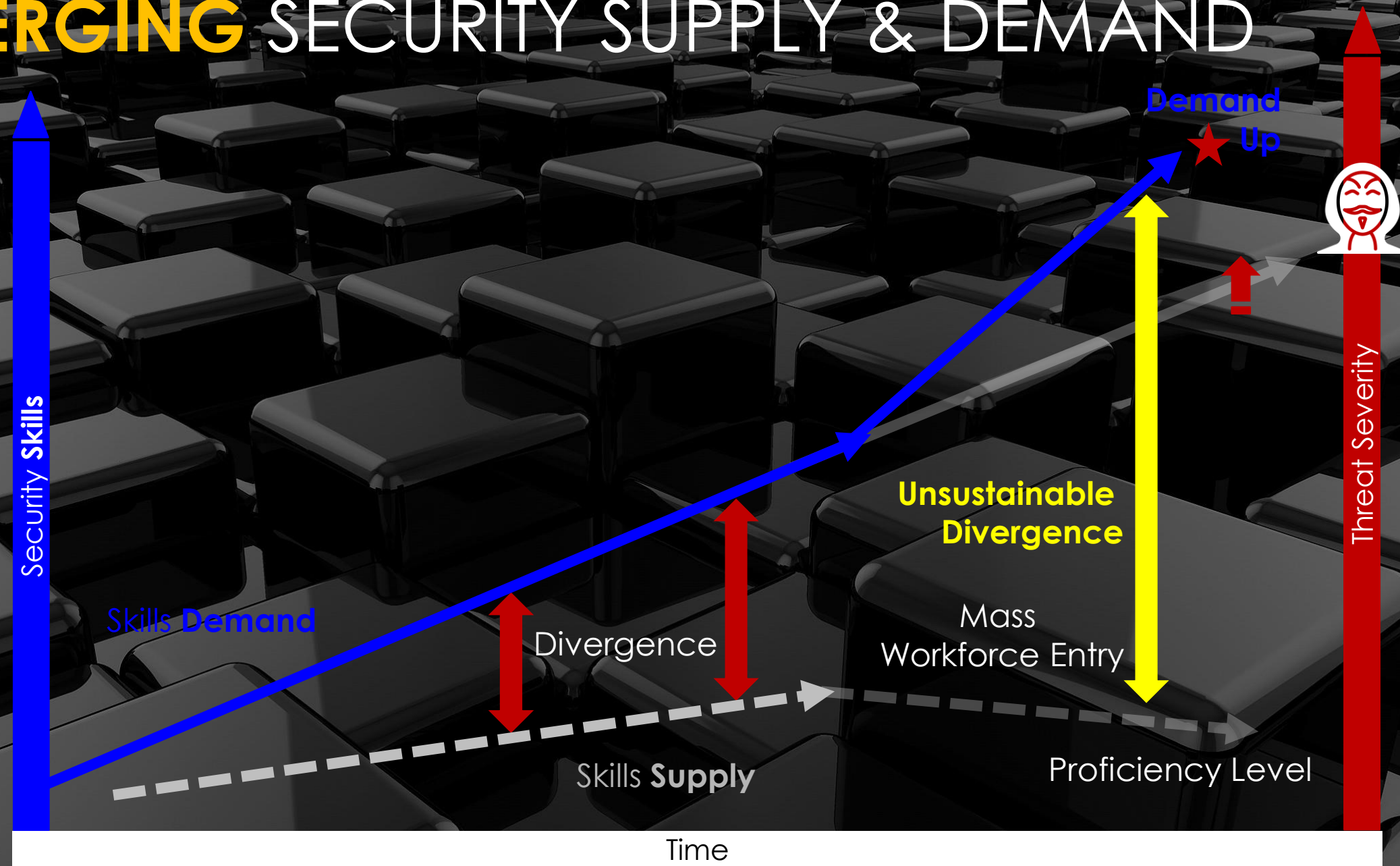


One Protection for **All**

It is a
Human Right
to be reasonably **protected**
from **digital harm**

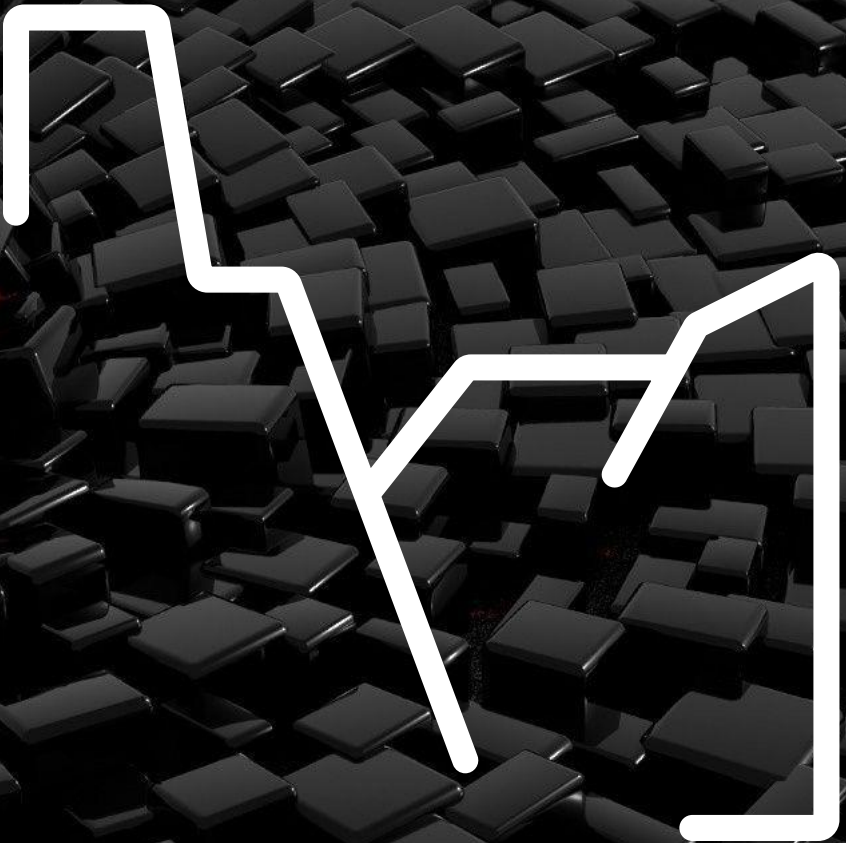
... without the burden of
“**buyer beware**”

DIVERGING SECURITY SUPPLY & DEMAND





The Failure of Security to Protect



Security **Funding**

Protection ~ **Amount** of Security

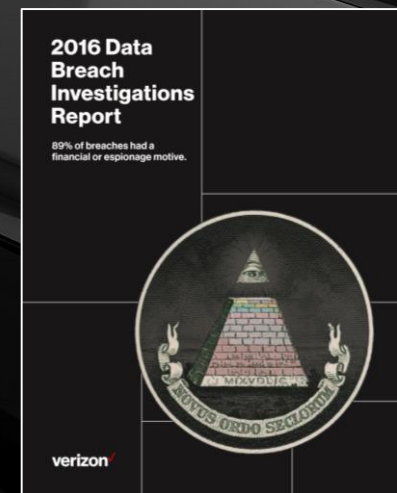
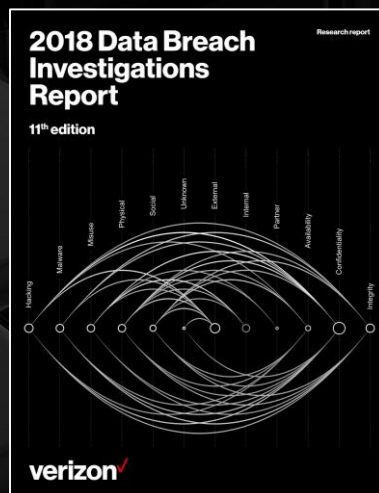
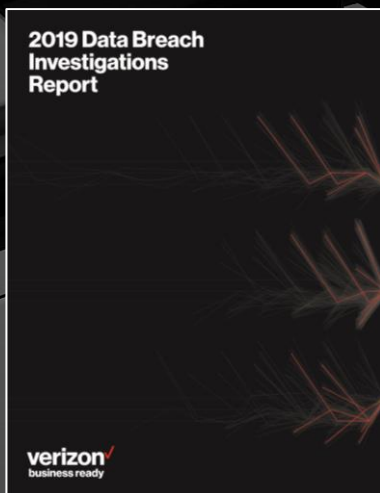
& **Quality** of Security

Security **Skills**



New Equifax CEO (post Breach) states in congressional hearing*
- investing +\$1,250,000,000 over 3 years,
hiring 1000+ experts

Security Funding Protection ~ Amount of Security

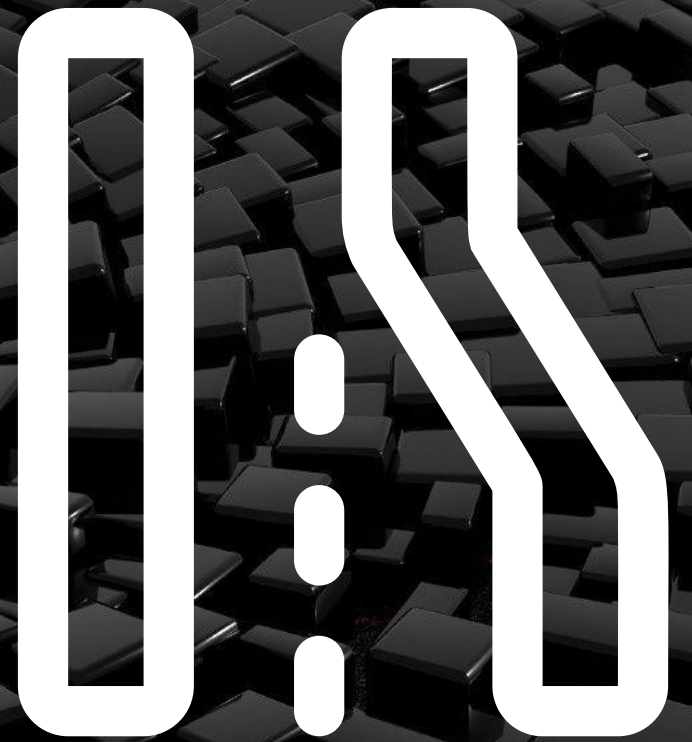


* <https://www.hsgac.senate.gov/templates/watch.cfm?id=ED7AA8F1-5056-A066-6067-80CD2EC5A6C3>

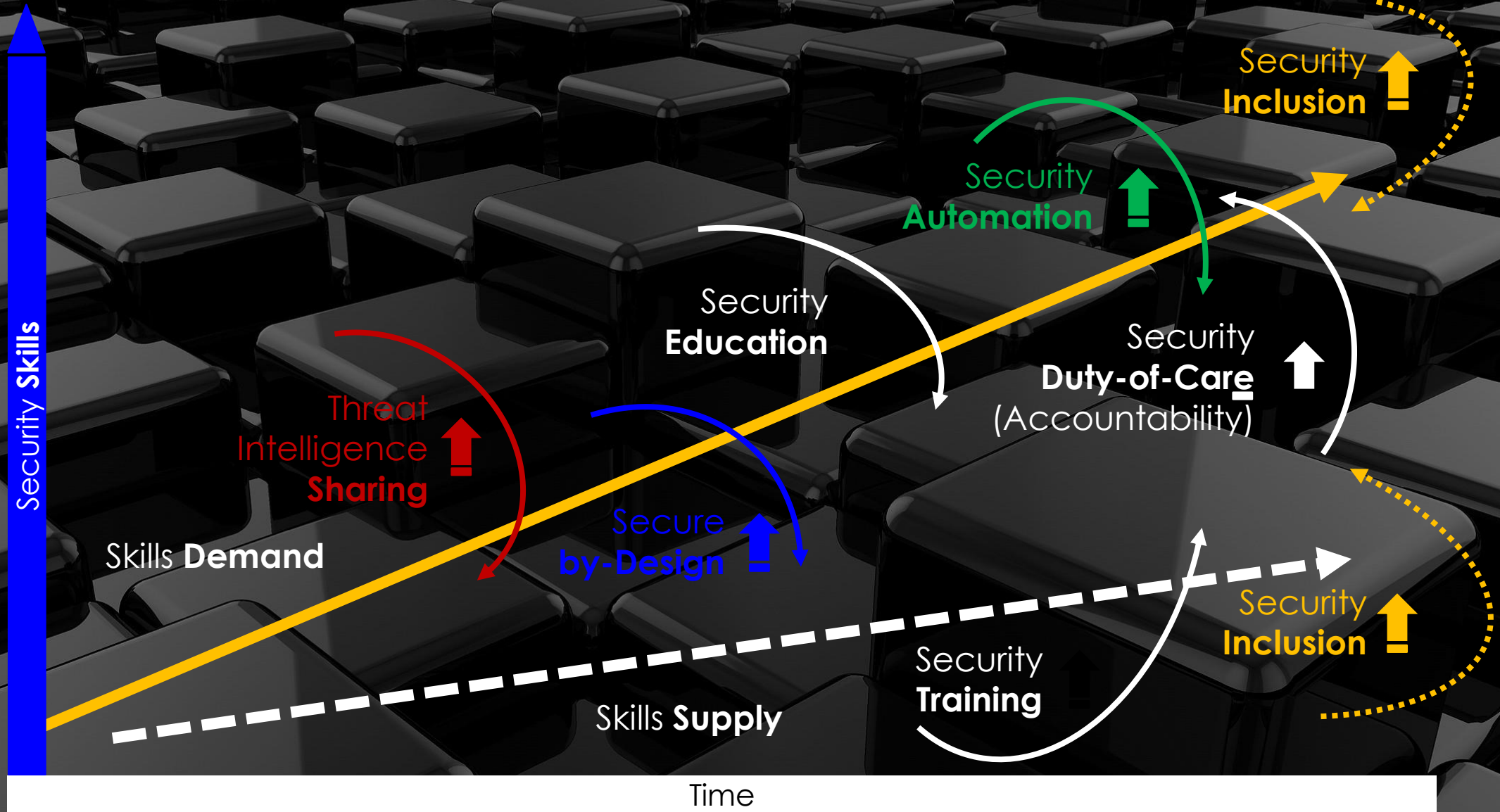


Security Inclusion Now!

*One Protection for
All*



BENDING THE CURVE



BARRIERS-TO-SECURITY ADOPTION

Ambiguous, subjective, interpretation

Language

Lost in translation

Adding to
complexity
& cost,
every day

Poor management

Skills

Basic practitioner
levels, spreadsheets

Objective -to- Actual
control disconnect

Complexity

Actual -to- Objective
control disconnect

Many complex security
Control frameworks

Cost

Many complex security
technologies

...
greatly

... &
normalizing

... &
relationships

... &
**Actionable
Knowledge**

“Our vulnerability to cyber threats
can be reduced by **developing** global
security **standards, policies** and **practices**,
increasing cooperation and information
sharing, and enhancing collaboration
between public and private partners.*”

* Global **Future Council** of World Economic Forum's Centre for Cybersecurity

... &
greatly

... &
interoperability

... &
relationships

... &
**Actionable
Knowledge**

“Our vulnerability to cyber threats can be reduced by developing global security standards, policies and practices, increasing **cooperation** and information **sharing**, and enhancing **collaboration** between public and private partners.*”

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Security Inclusion Now!

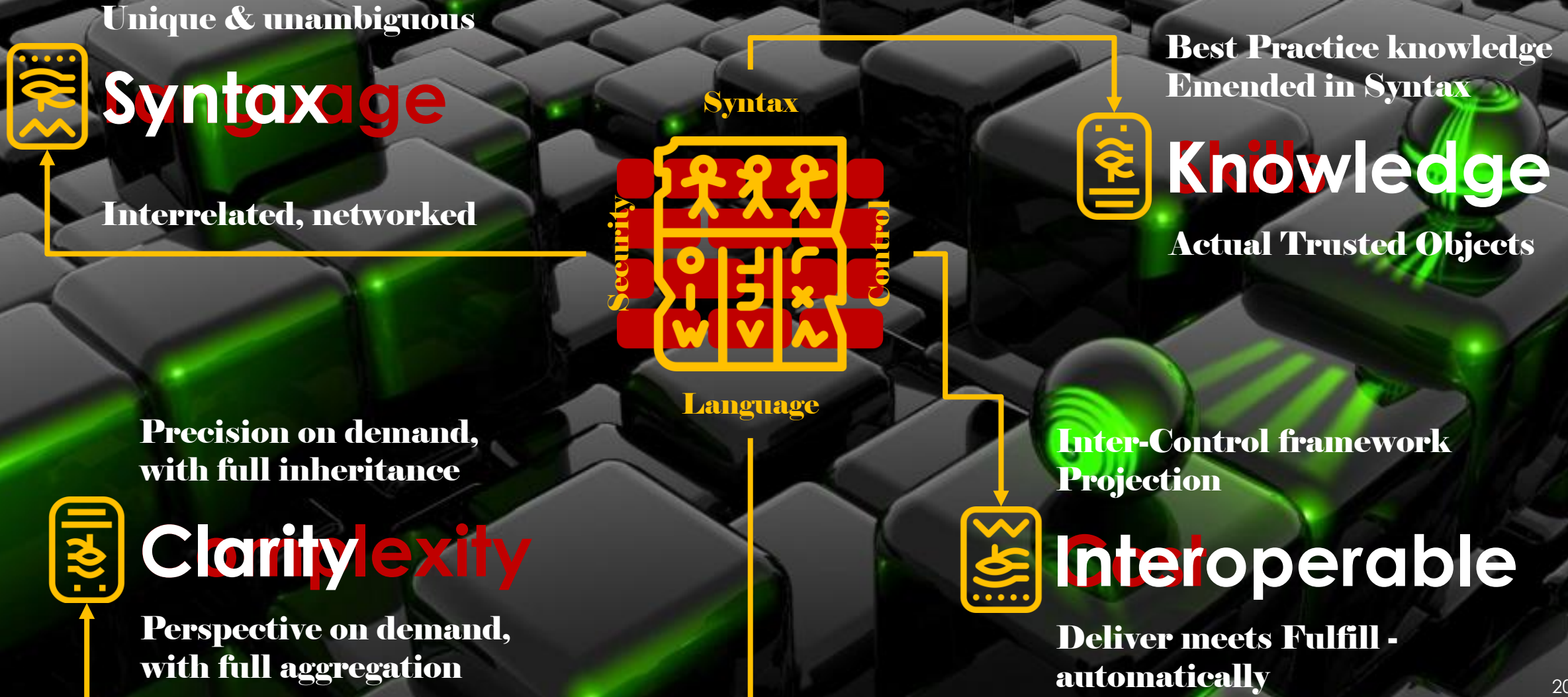
*One Protection for
All*

Protection ~  Quality of Security

Fundamental
Challenges

- Visibility
- Measurability
- Precision
- Normalization

REDUCING BARRIERS-TO-SECURITY ADOPTION



Unified Security Model



How can we **build** on each other's expertise, leverage our diversity to enable ...

... an **integrated** approach with clear, concise & immediate Threat | Target | Security communication & response, with **confidence**?

A: Residual Exposure

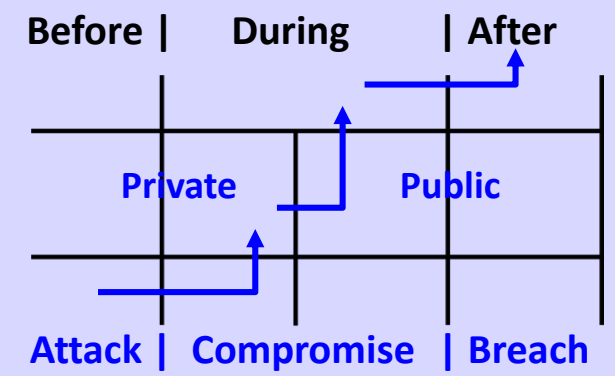
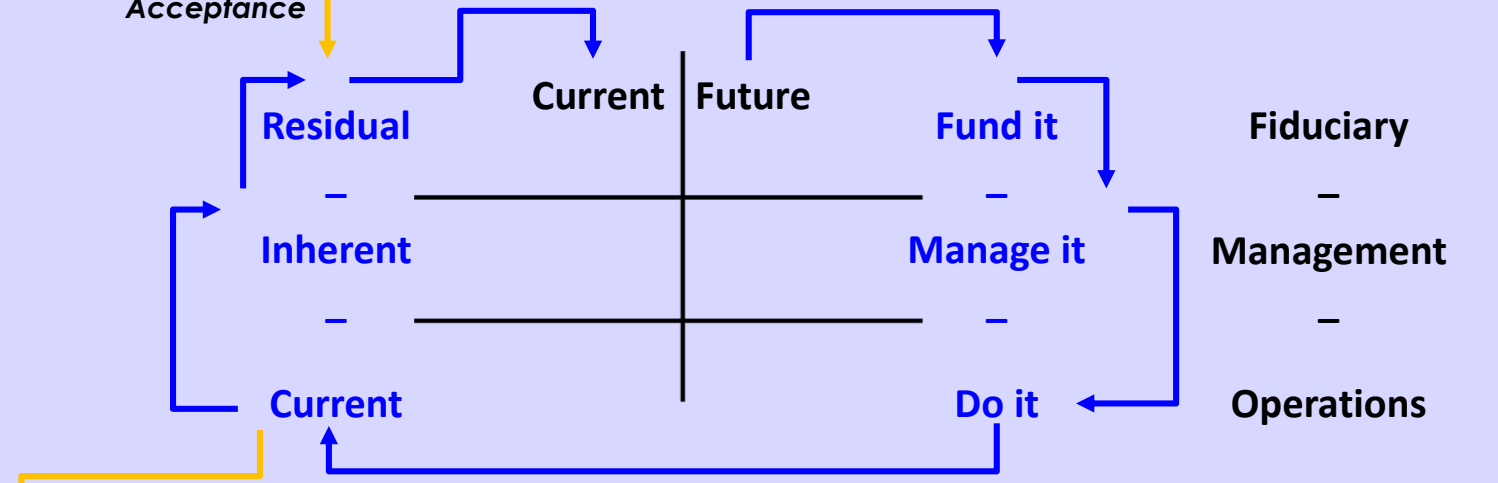
Residual | Value | Protection

Unified Security Model (USM)

B₁: Risk Acceptance

B₂: Current Attack Response Capability

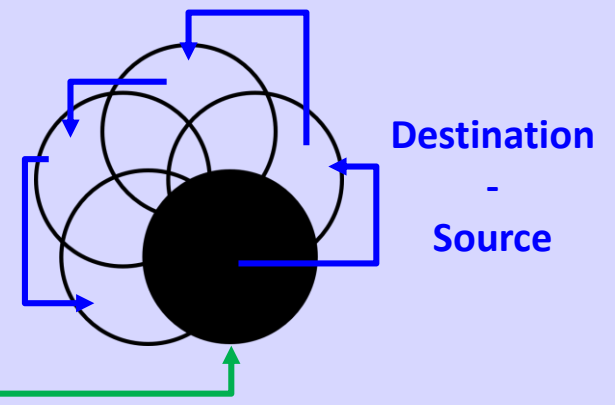
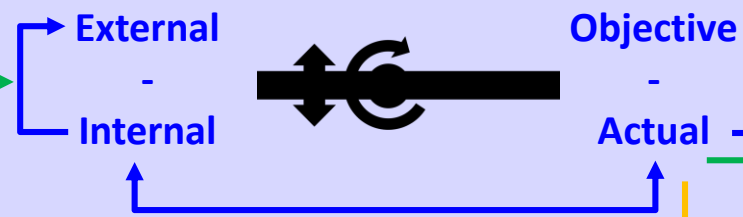
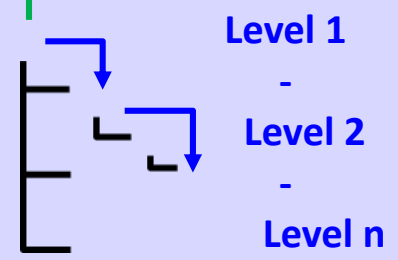
Inter-model **different** Level \updownarrow
 Inter-model **same** Level \leftrightarrow
 Intra-model \curvearrowright



C₁: Control Objective Frameworks

C₂: Control Transformation

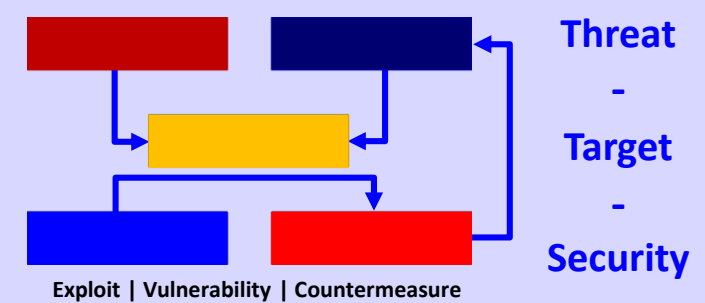
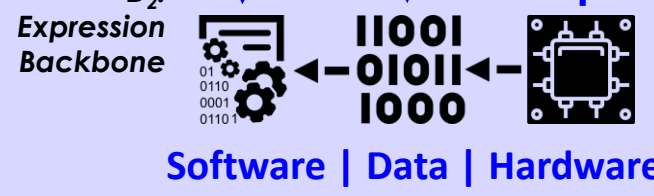
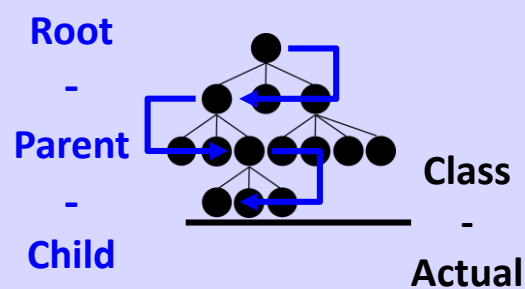
C₃: Control Objective Projection



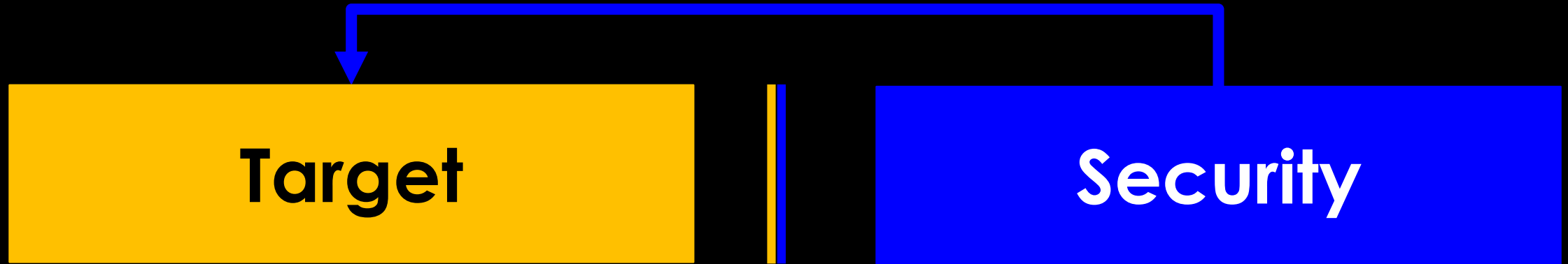
D₁: Expression Parameters

D₂: Expression Backbone

D₃: Assurance Expression Model

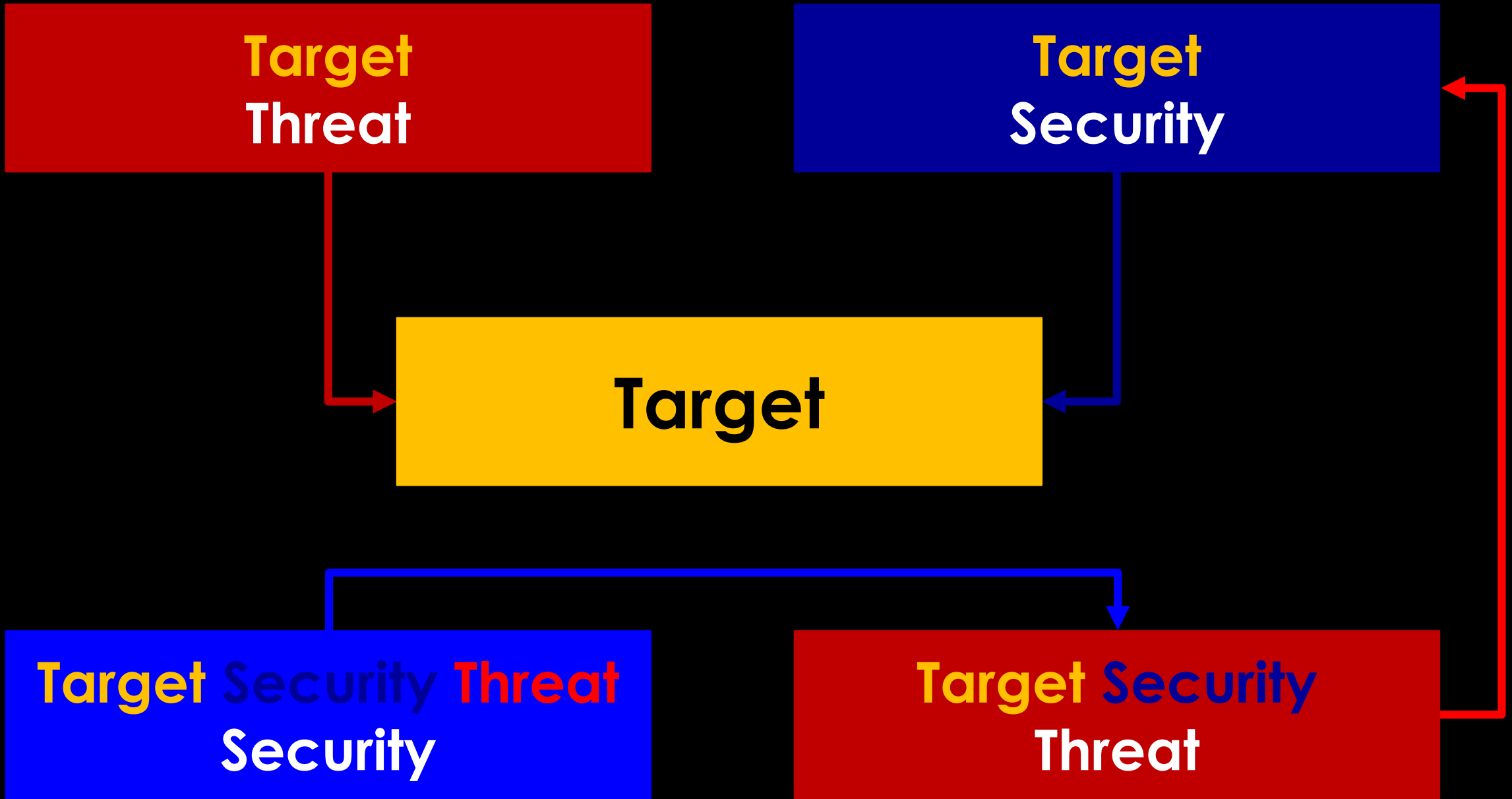


Security to Target Expression

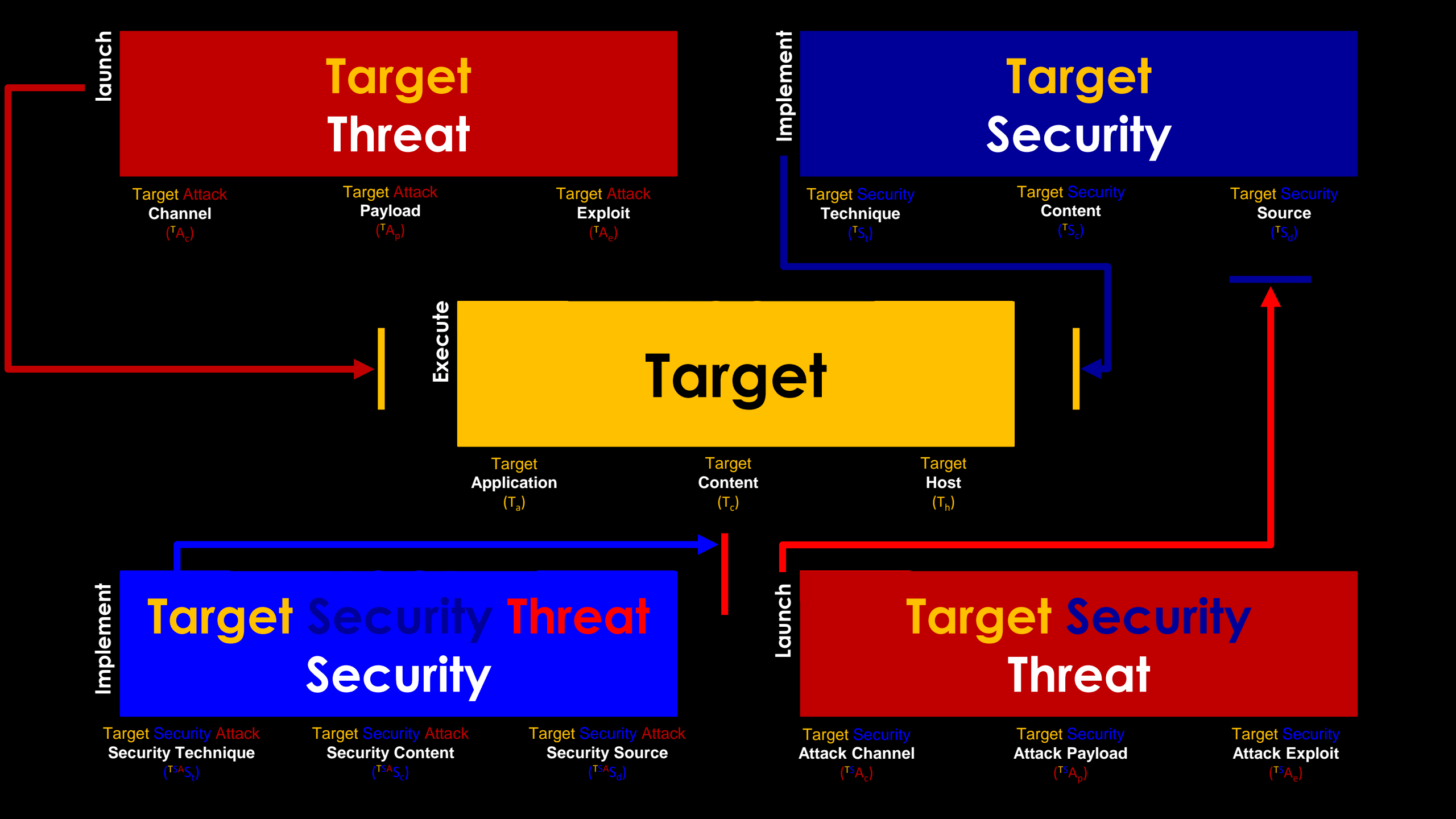


Threat to Target Expression





Protection Assurance Expression Model



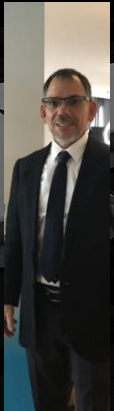


In an **interconnected** world

... protection for the **rich**
cannot exist if
Without **all** being protected

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