

IOTWeek

Dublin — June 20-23, 2022

SENTINEL: Bridging the security, privacy and data protection gap for smaller enterprises in Europe

George Bravos

GLOBAL VISION:

IoT TODAY AND BEYOND

IOTForum

Company overview



Location

- Headquartered in Athens, Greece (est. 2011)
- Offices also in Limassol, Cyprus

Size

- 50 people (50% in R&I) and growing
- 80% growth rate per year for the last 3 years

Competences & Target Markets

Design thinking / CX

- User-centric solutions

Cyber Security

- Threat & Infra monitoring

Data Analytics

- Decision support solutions

Maritime

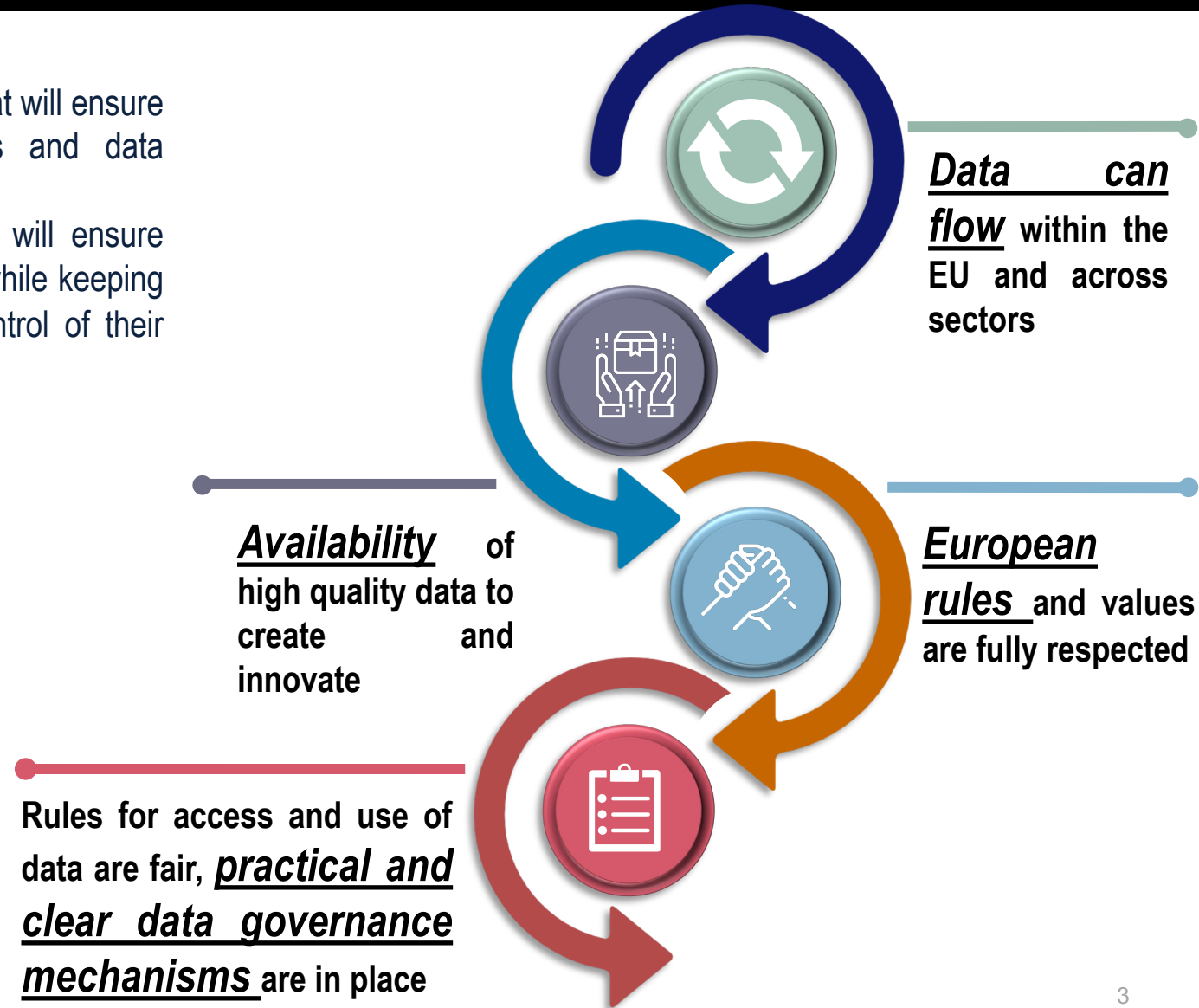
- Performance monitoring

Indicative Clients



The challenges to address

“ Create a single market for data that will ensure Europe’s global competitiveness and data sovereignty. Common European data spaces will ensure more data are available for use, while keeping companies and individuals in control of their data.



The challenges to address

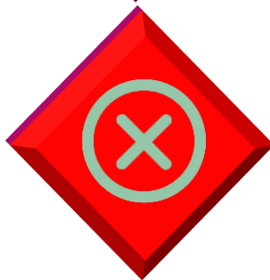


- SMEs represent 99% of all EU businesses (25M SMEs)
- Create around 85% of new jobs (2/3 of private sector)



Role of SMEs in the Data Value Chain

- Data owner, data acquisition, data aggregator, data storage, data analysis, data user, data services



- 79% failing to meet the GDPR's requirements
- 25% don't consider themselves knowledgeable about the GDPR regulation



- GDPR costs are related to installation costs (IC) of technical and organization measures, as well as maintenance costs (MC). Usually, implementation costs are at least twice than maintenance
- GDPR cost for small business is 0 – 50,000 euros annually!

SMEs lack awareness and are confused



- A lack of easy-to-understand information on GDPR
- A lack of awareness on the need to protect data and digital infrastructure



- Outdated operating systems
- Outdated business models



- Multiple platforms
- Tight budgets

SENTINEL overall target



SENTINEL provides a complete privacy, cybersecurity and data protection suite that enables small and medium enterprises to achieve business security, safeguard their and customers' assets in an efficient and affordable manner.



- It integrates security and privacy technologies into a unified digital architecture and then applies disruptive intelligence for compliance.
- It educates SMEs on GDPR requirements and how to achieve compliance
- It automates GDPR compliance and provision of recommendations for personal data protection and cybersecurity
- It provides a plethora of tools for real time monitoring and threat mitigation



SENTINEL Key Performance Indicators (KPIs)



- 20 novel cybersecurity services among which



- 10 dedicated to personal data protection and privacy assurance



- 40% improved privacy compliance efficiency



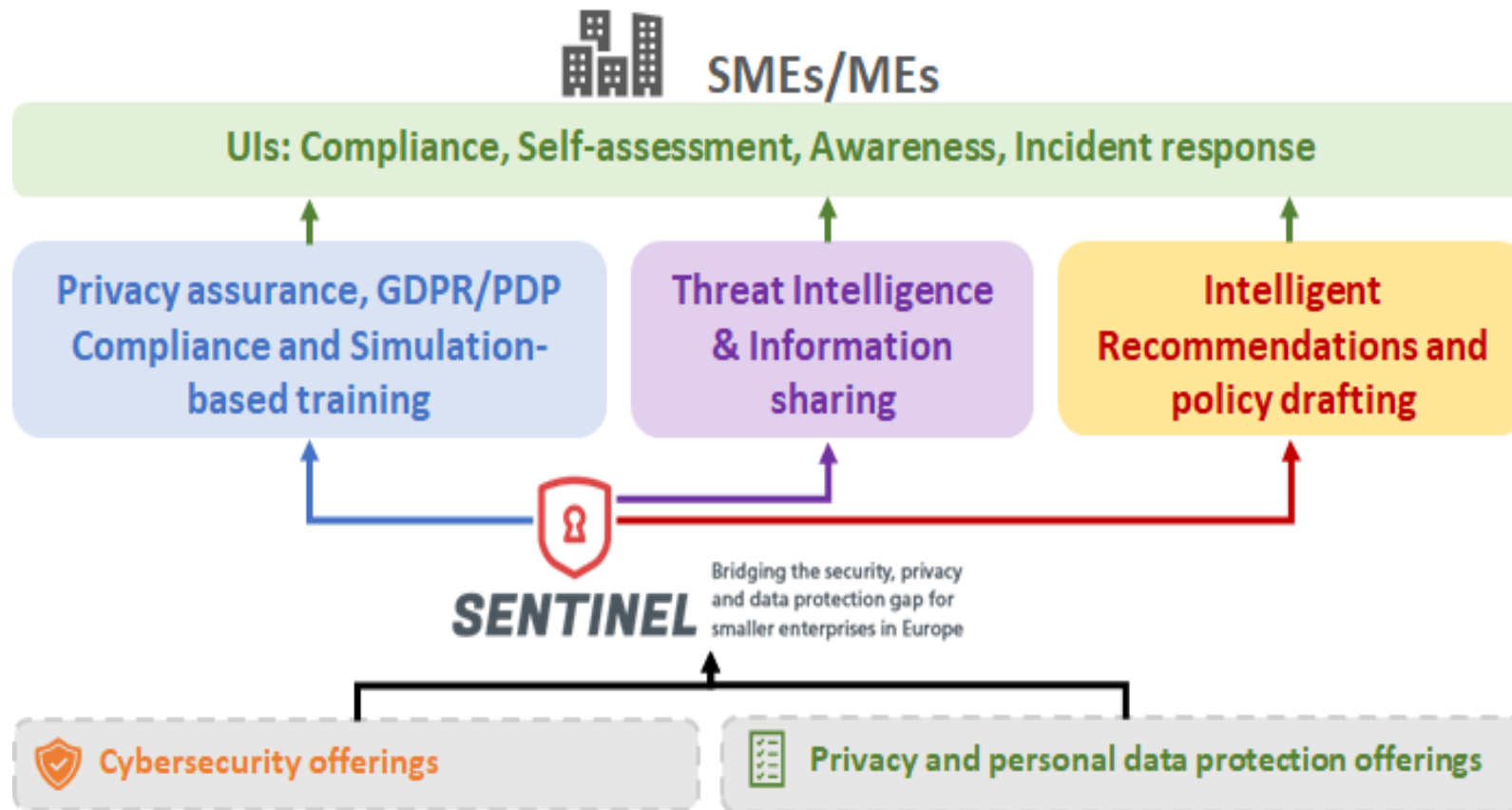
- 40% reduction in compliance-related costs via automation



- >10 critical aspects addressed (maintenance and software update) for long-term sustainability

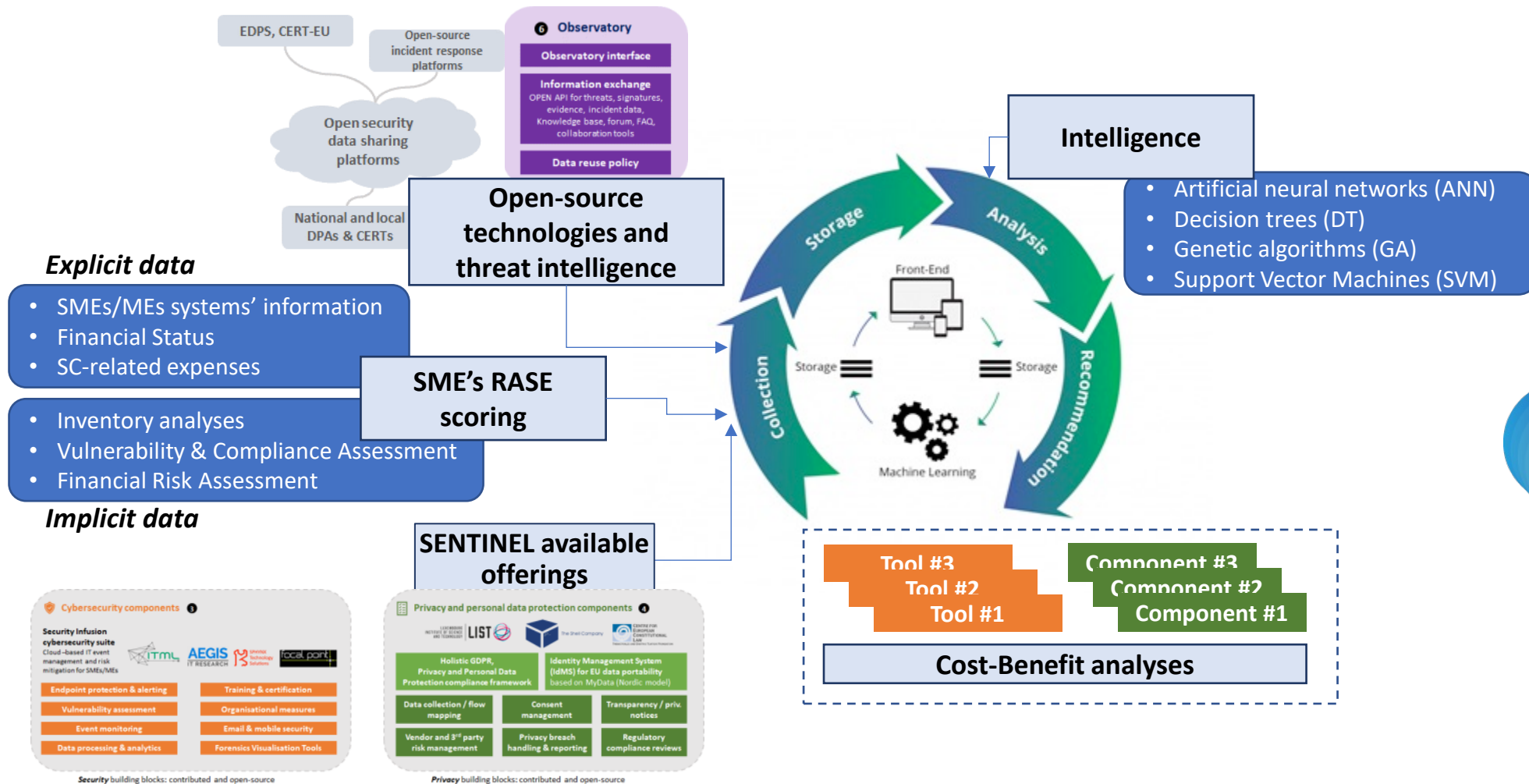


SENTINEL overview



SENTINEL consortium contributed, engaged during project, and open-source

SENTINEL offerings in detail



SENTINEL offerings in detail

Cybersecurity components 3

Security Infusion cybersecurity suite

Cloud-based IT event management and risk mitigation for SMEs/MEs



- | | |
|--------------------------------|-------------------------------|
| Endpoint protection & alerting | Training & certification |
| Vulnerability assessment | Organisational measures |
| Event monitoring | Forensics Visualisation Tools |
| Data processing & analytics | |

Privacy and personal data protection components 4



- | | | |
|--|--|-------------------------------|
| Holistic GDPR, Privacy and Personal Data Protection compliance framework | Identity Management System (IdMS) for EU data portability based on MyData (Nordic model) | |
| Data collection / flow mapping | Consent management | Transparency / priv. notices |
| Vendor and 3 rd party risk management | Privacy breach handling & reporting | Regulatory compliance reviews |

- Inventory analysis
- Security building blocks: contributed and open-source
- Vulnerability & Compliance Assessment
- Financial Risk Assessment

Implicit data

SENTINEL available offerings



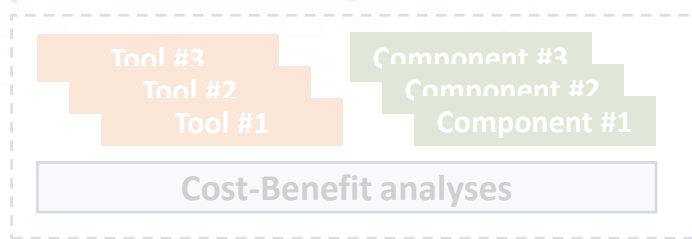
Security building blocks: contributed and open-source



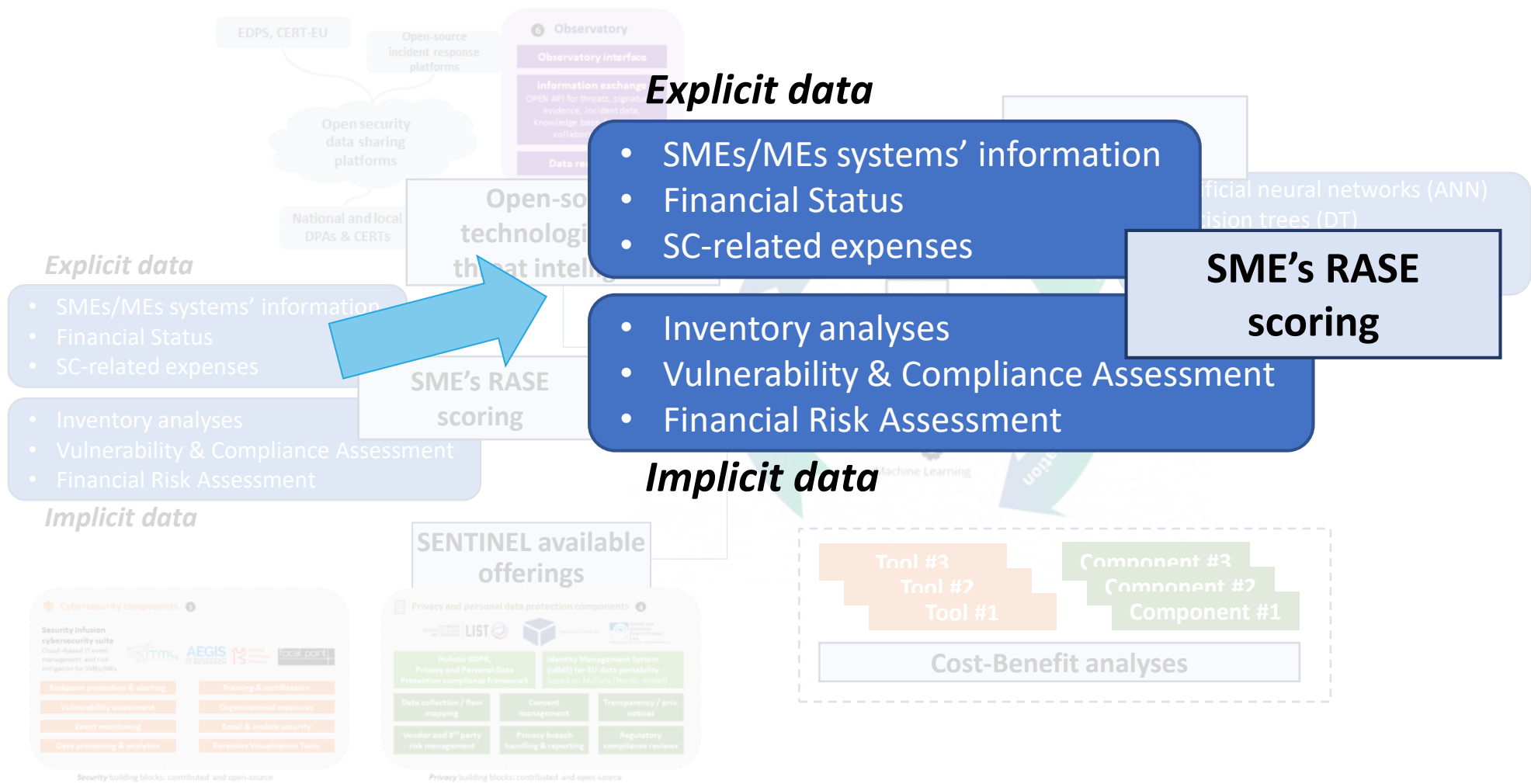
Privacy building blocks: contributed and open-source



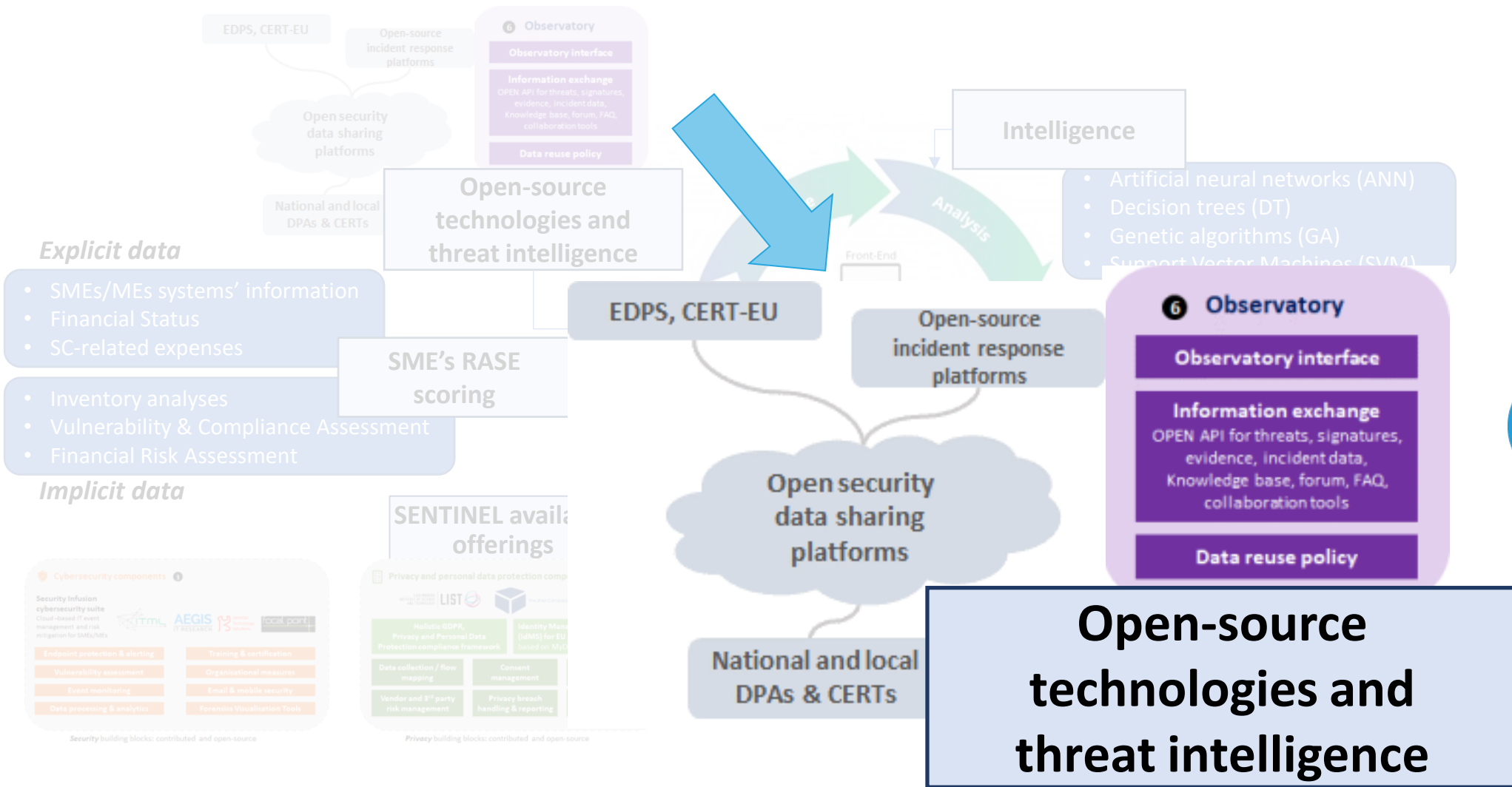
Privacy building blocks: contributed and open-source



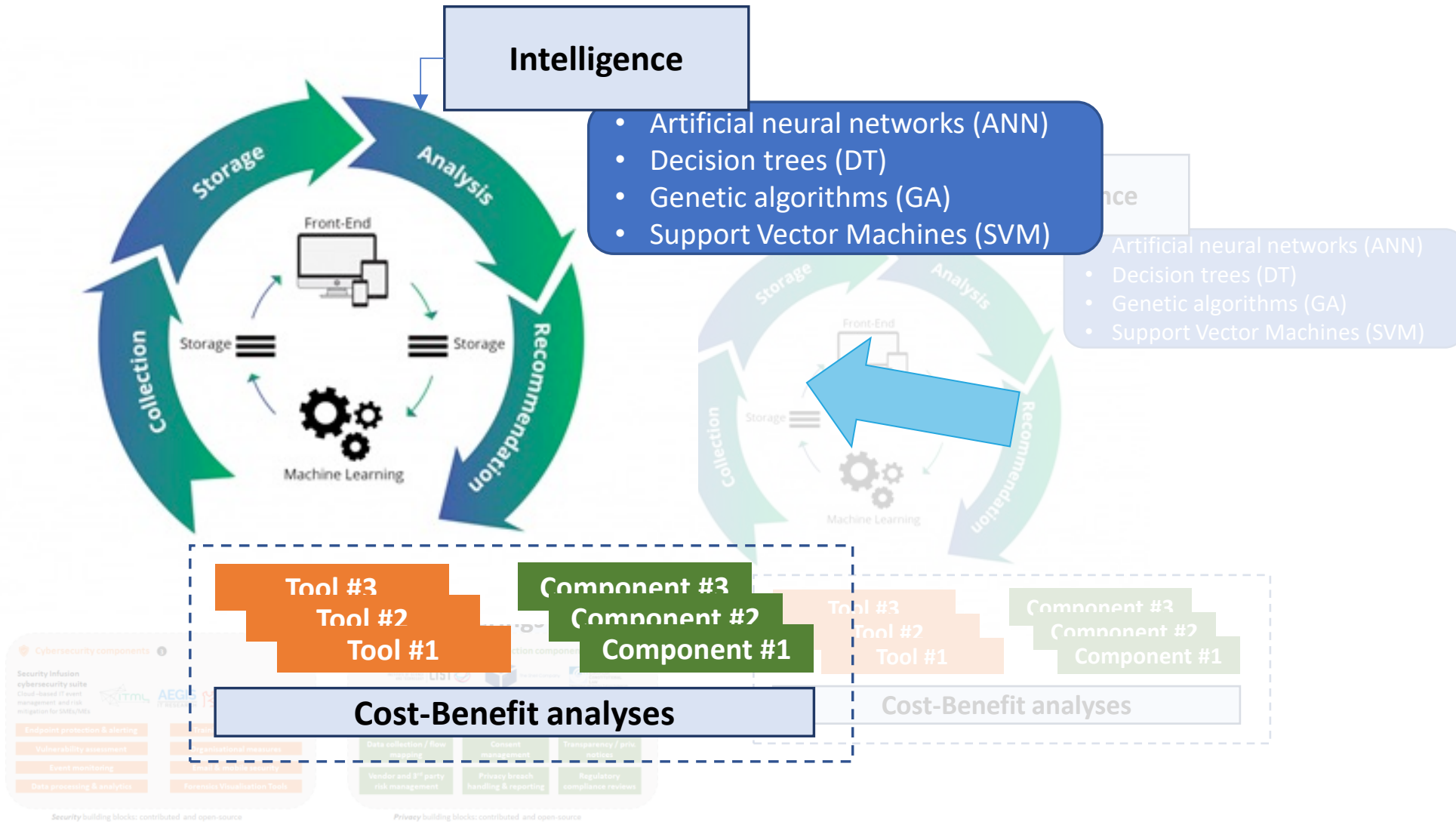
SENTINEL offerings in detail



SENTINEL offerings in detail



SENTINEL offerings in detail



SENTINEL offerings in detail



**SME Training and
Education**



**Evidence-based
GDPR compliance**



**Cutting costs
through automation**

**Raise awareness – engage EU SMEs
& MEs**



IOTWeek

Dublin — June 20-23, 2022

Thank you!

Find more:

www.sentinel-project.eu

iotweek.org