IT'S THEIR RESPONSIBILITY FIRST.

Privacy in IoT

The unique opportunity to learn and discuss where the Internet of Things meets GDPR, and where Hyperconnectivity meets Privacy & Security. Who wouldn't be totally confused!? In our Open Webinars, Arthur's Legal will address the Pains & Gains of the GDPR, X By Design & Resilience.

Arthur
van der Wees

Dimitra
Stefanatou

Janneke
Breeuwsma

Arthur's Legal organizes seven (7) webinars on Privacy in IoT with the focus on GDPR, supported by AIOTI and Create-IoT

Go to **arthurslegal.com/iot/** for more information and subscription for the webinars.

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Zapplied
Ignore us at your own peril

Privacy in IoT

Open Webinars by Arthur's Legal, supported by:
AIOTI WG3 Privacy-in-IoT Taskforce, and
H2020 CSA CREATE-IoT & LSPs AG Trust in IoT

Arthur van der Wees

Managing Director Arthur's Legal, the global tech-by-design law firm & strategic knowledge partner

Expert Advisor to the European Commission (Cloud, IoT, Data Value Chain, Cybersecurity, Privacy & Accountability)

Project Leader H2020 IoT LSPs & CSAs Activity Group on Trust, Security, Privacy, Accountability & Liability

Founding Member, EC's Alliance for IoT Innovation (AIOTI)

Task Force Leader AIOTI Security in IoT & Privacy in IoT

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CREATE-IoT

European Large-Scale Pilots Programme

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ALLIANCE FOR INTERNET OF THINGS INNOVATION
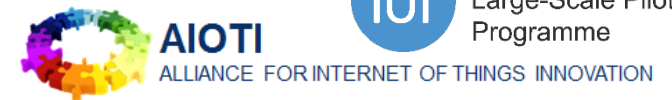
Privacy in IoT Open Webinar Series

Webinar 1: GDPR: Processing, Protection, Security & Strategies

Webinar 2: X-by-Design: Upstream & Downstream Resilience

Webinar 3: State of the Art Privacy Principles & Requirements

Webinar 4: Consent Management & Engagement in IoT

Webinar 5: Compliance, Accountability, Assurance & Penalties

Webinar 6: IoT Ecosystems, Pre-Procurement & Collaboration
Right Now!

Webinar 7: Data Subject Rights & Data Management in IoT
Wednesday **23 May 2018**, 10.00 - 11.00 CET

Please subscribe to the Privacy in IoT Mailing List at: www.arthurslegal.com/IoT, in which we will keep you
up to date with dates, login details and the latest news on the GDPR, Privacy in IoT and related topics.

CREATE-IoT

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European
Large-Scale Pilots
Programme

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Privacy in IoT

Webinar Nr. 6

Hyper-Connecting

GDPR-Accountable
IoT Ecosystems, Pre-Procurement & Collaboration
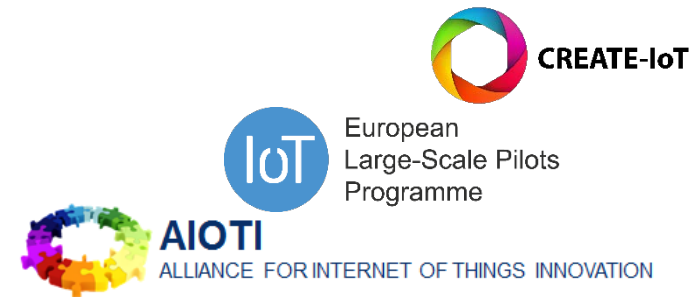
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Smart with Whom?

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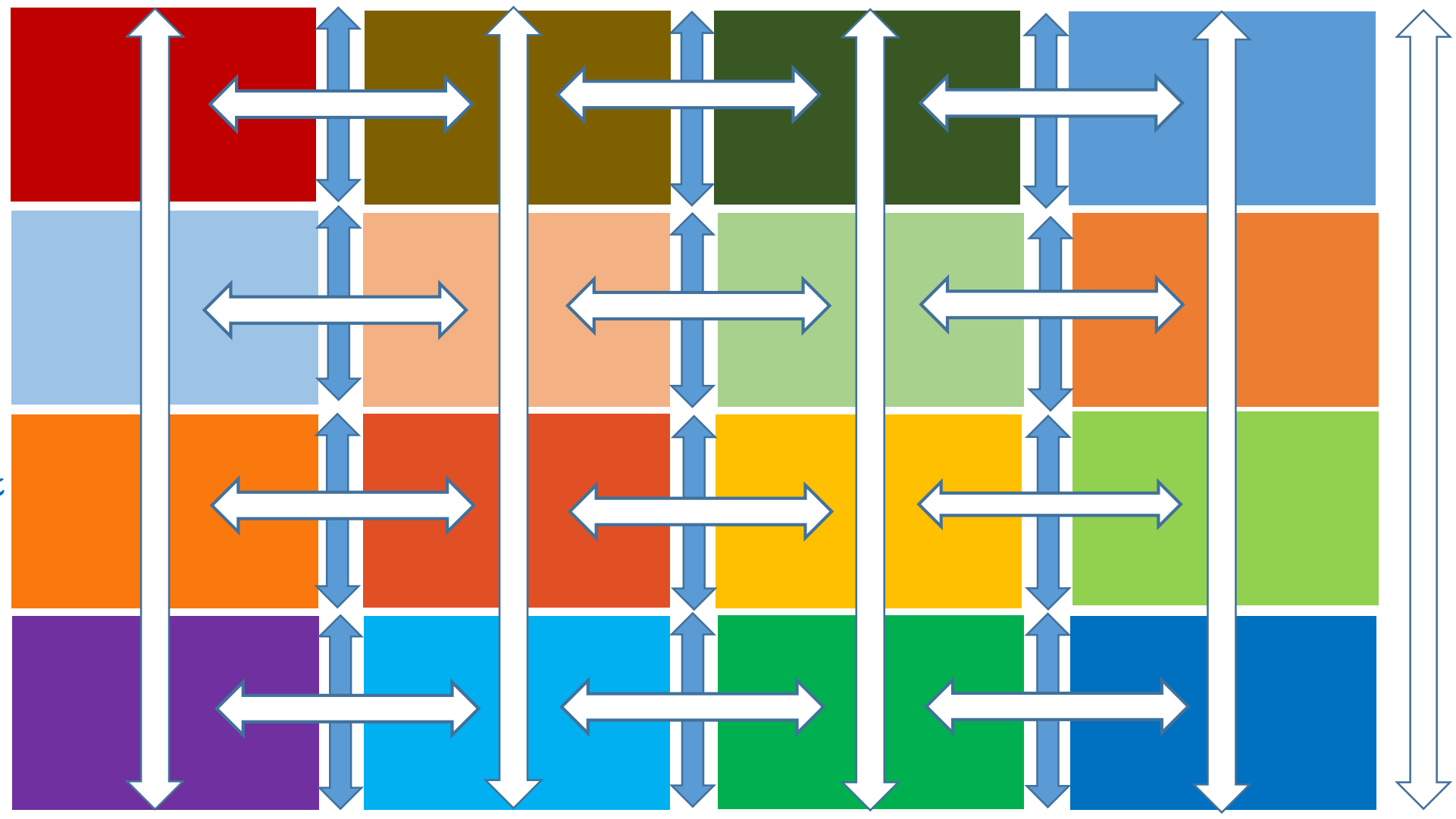
Click Here to Kill Everybody

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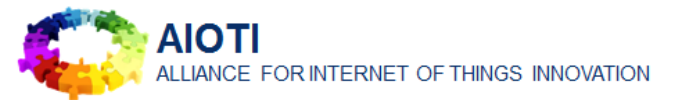
Where to Start?

Stand-Alone
vs
Hyper-Connectivity

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By Design
By Re-Design
Retrofitting

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9 Days

to Effective Date GDPR

25 May 2018

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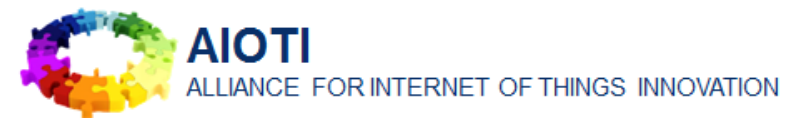
General Data Protection Regulation:

Data Control & Digital Transparency

Data Collecting

Data Processing

Data Protection

Data Security

Data Management

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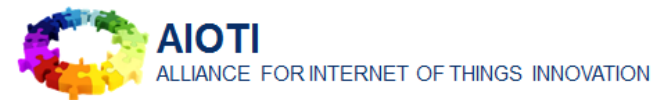
From 2018, Digital & Data become Highly Regulated Domains

PSD2: 13 January 2018

NIS: 9 May 2018   Identifying operators of 'Essential Services'
9 November 2018

GDPR: 25 May 2018

Trade Secrets Directive 9 June 2018

e-Privacy Regulation (draft)
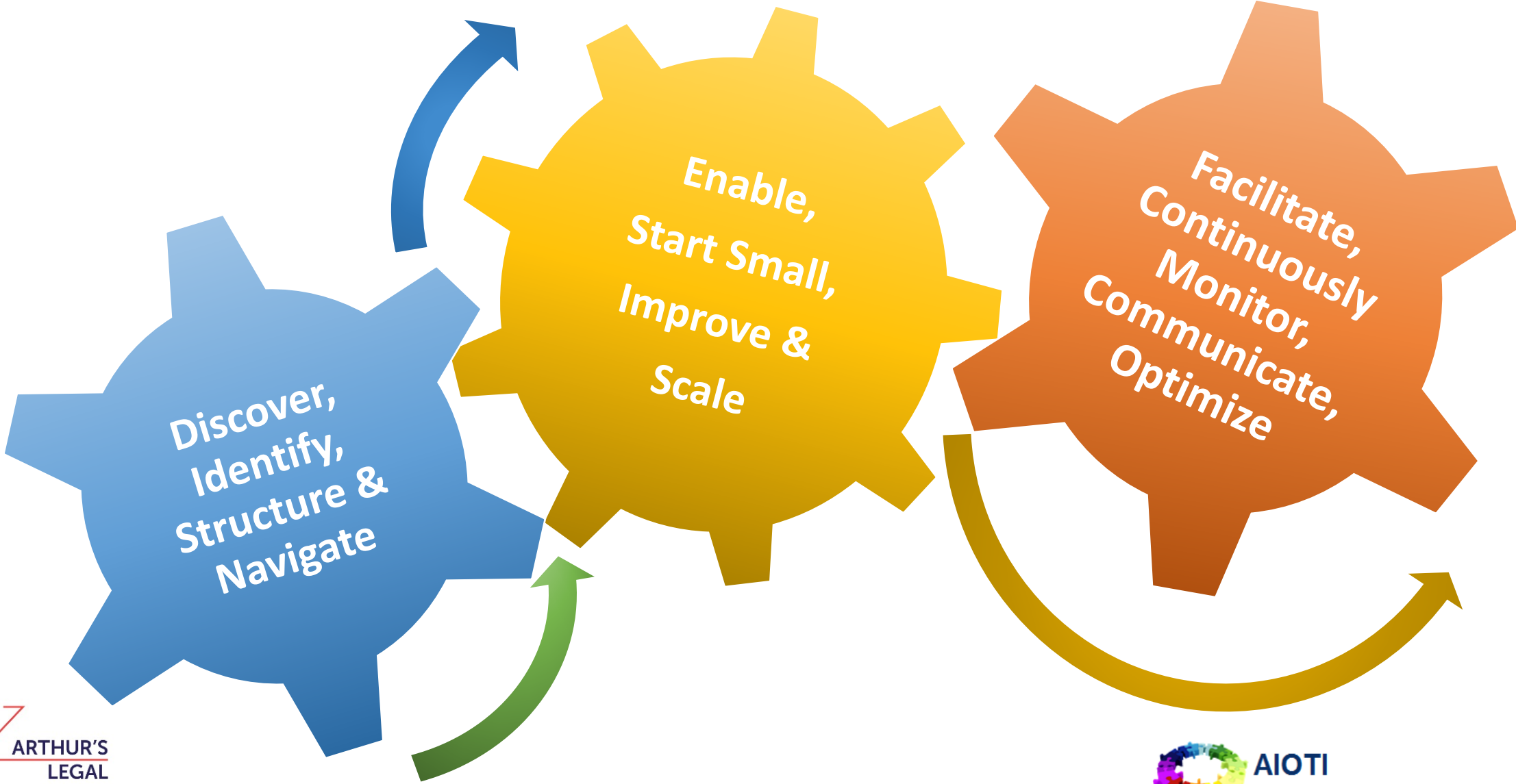
Free Flow of Data Regulation (draft)

Cyber Security Act & Certification Scheme (draft)

Public Services Information Directive (revision)

1 January 2018

IoT Ecosystems: Where to Start?

Design & Organize Ecosystems

1. Data Classification
2. Actors & Stakeholders
3. Technical Stack
4. Legal Grounds
5. Legitimate Purposes
6. Data Life Cycle
7. Personal Data Flows

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Who is Involved?

Human-Centric Technology, Thriving Ecosystems & Multi-Angled Stakeholders & Influencers

1. The **User** (Convenience-Focused, Cheap, Curious, Creative, Ignorant)
2. **Customers** Who Are Willing To Pay(B2x, x2x)
3. **Suppliers & Value Ecosystem** (Secure In, Secure Inside, Secure Out)
4. Thriving **Ecosystems & Society**
5. **Malicious Actors** (They Are Patient. And They Collaborate! We Do Not)
6. Act First Seek Forgiveness Later **Data Brokers**
7. **Policy** Makers, **Standardisation** Development Orgs & Markets
8. **Authorities** (Who is responsible for what, and are they capable?)
9. **Data Access**: Law Enforcement & Intelligence Services

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Contractual relationship

Legal relationship by law

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Where is one Involved?

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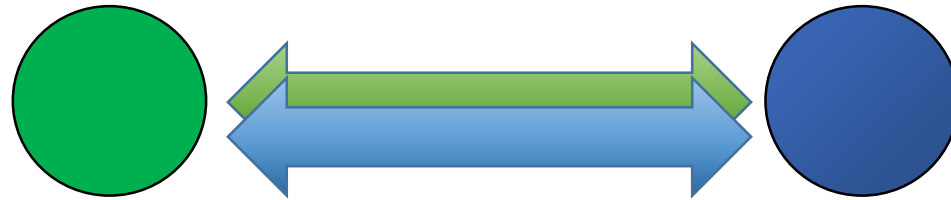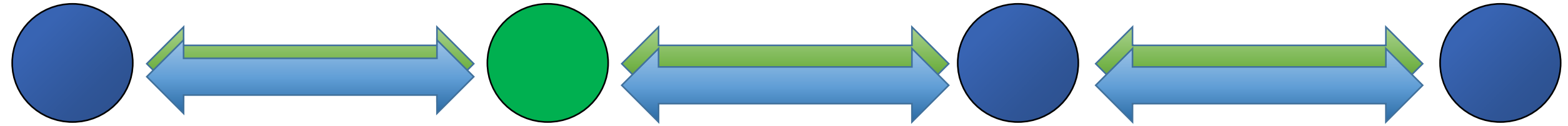
Life Cycles Methodology

Systems Life Cycle: What does the life cycle entails, how long needs and can a device, product, system or service remain connected to the ecosystem in a secure, safe and compliant manner, what can the user/customer expect, and how is both the d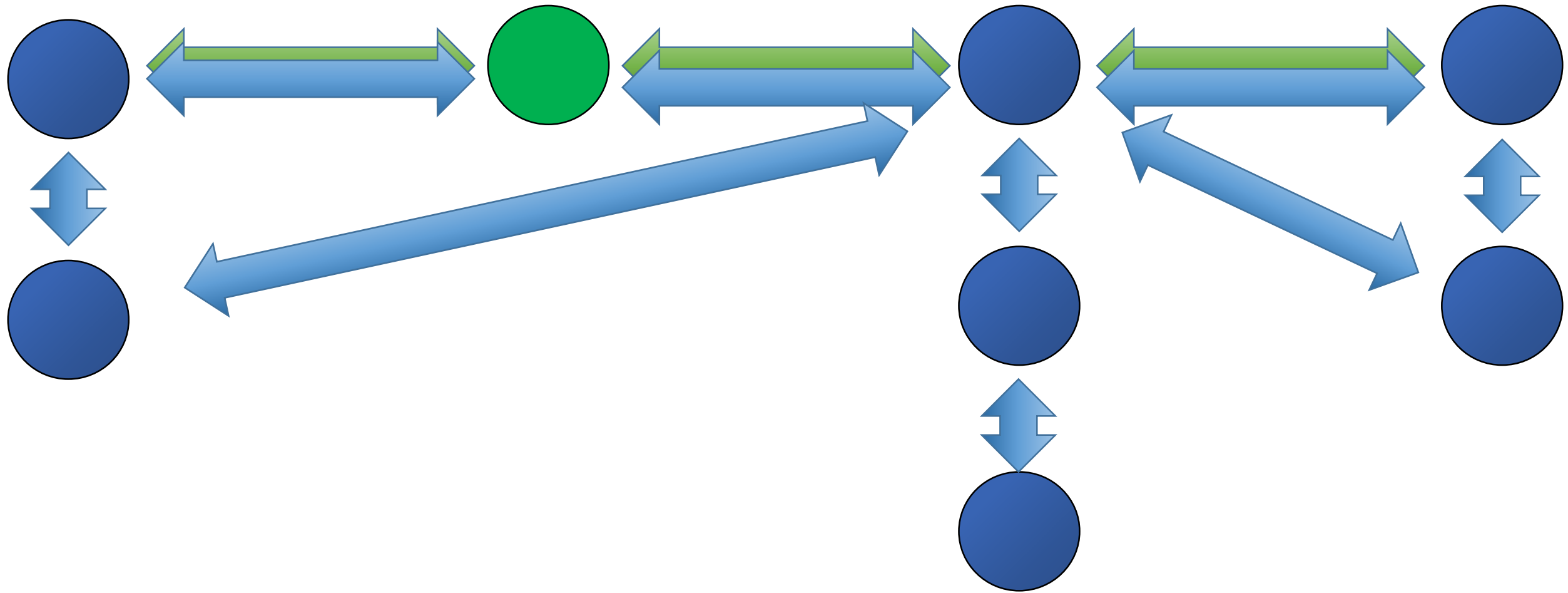evice, product, system or service as well as the user/customer able to keep up to date with (at least) the state of practice?
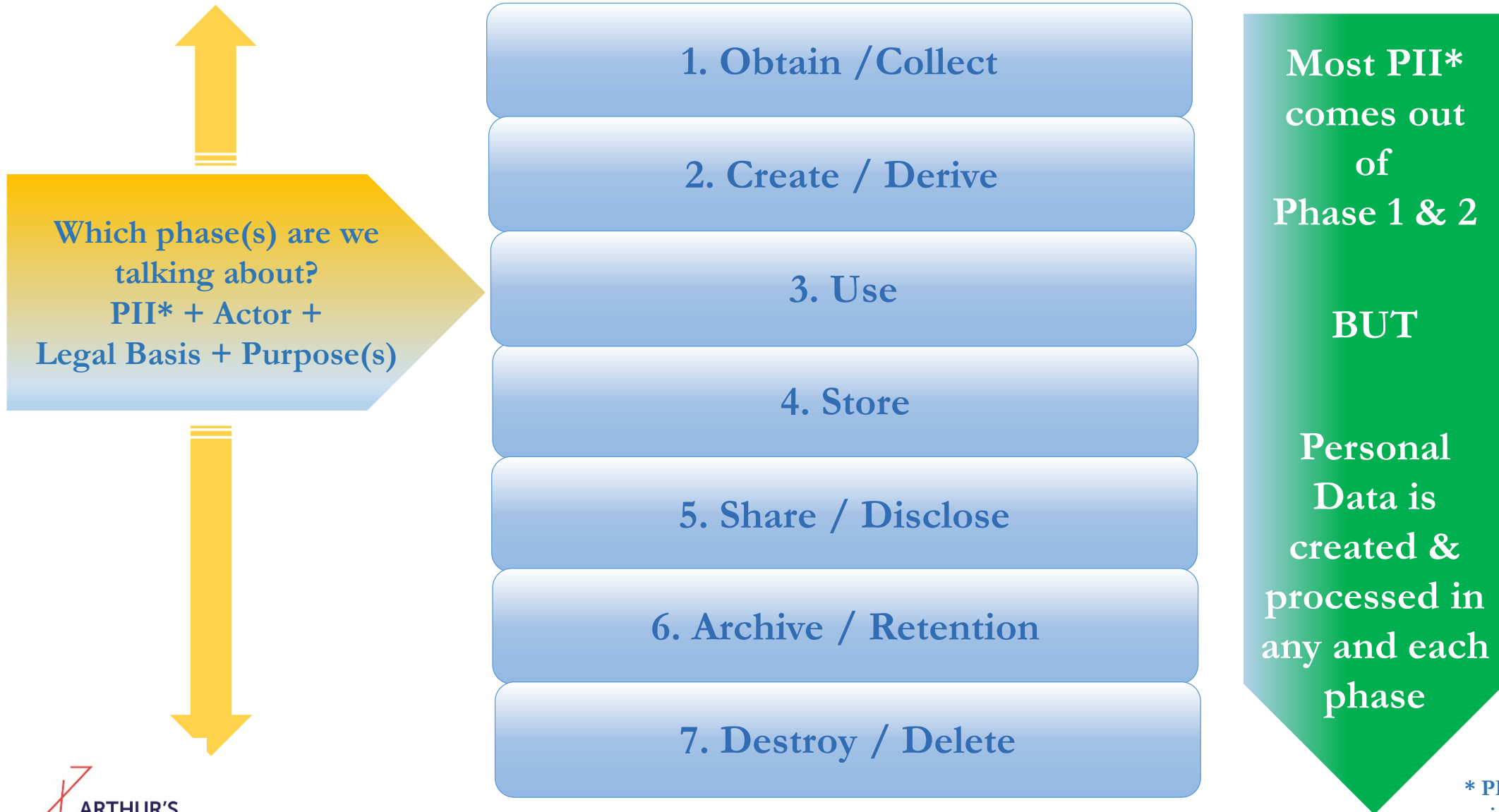
Stakeholders Life Cycle: What stakeholders are involved regarding a device, product, system or service and in a relevant ecosystem, what if the dynamics thereof changes, who is accountable for what part of the ecosystem, how to keep the stakeholders up to date, and what happens if there is an incident of any kind within the IoT ecosystem?

Data Life Cycle: What data is collected, created or otherwise concerned, what is its classification, can it be segmented, minimised and isolated, what if it has multiple classifications and what if the classification changes, how controls the data, for what purposes is one entitled to process the data, what meta data and derived data is generated during the data life cycle, and what does data deletion mean?

Contextual Life Cycle: In what context is a device/product/ecosystem used, as what persona is a stakeholder involved and in what context is data used in an ecosystem, what if the context thereof changes, who is accountable in what context, how to make stakeholders aware of changes in best practices, rights and obligations when the context changes, and how to secure the rights and obligations of the relevant other stakeholders?

Legal Life Cycle: As a person or legal entity, with whom do you want to engage? And if so, how to assess, prepare, negotiate, contract, execute, operate, update, amend, escalate and terminate such engagement (a.k.a. legal relationship)?

7 Phases of the (Personal) Data Life Cycle

Which phase(s) are we talking about?
PII* + Actor +
Legal Basis + Purpose(s)

1. Obtain /Collect

2. Create / Derive

3. Use

4. Store

5. Share / Disclose

6. Archive / Retention

7. Destroy / Delete

Most PII* comes out of Phase 1 & 2

BUT

Personal Data is created & processed in any and each phase

* PII: personal identified or identifiable information

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Ecosystem for IoT, Data & The Rule of Law

Data Protection Agreements

The Silver Bullet?

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Engagement within GDPR

1. Data Subject

2. Legal Ground & Legitimate Purpose

3. Technical & Organisational Measures

4. Transparency, Trust & Engagement

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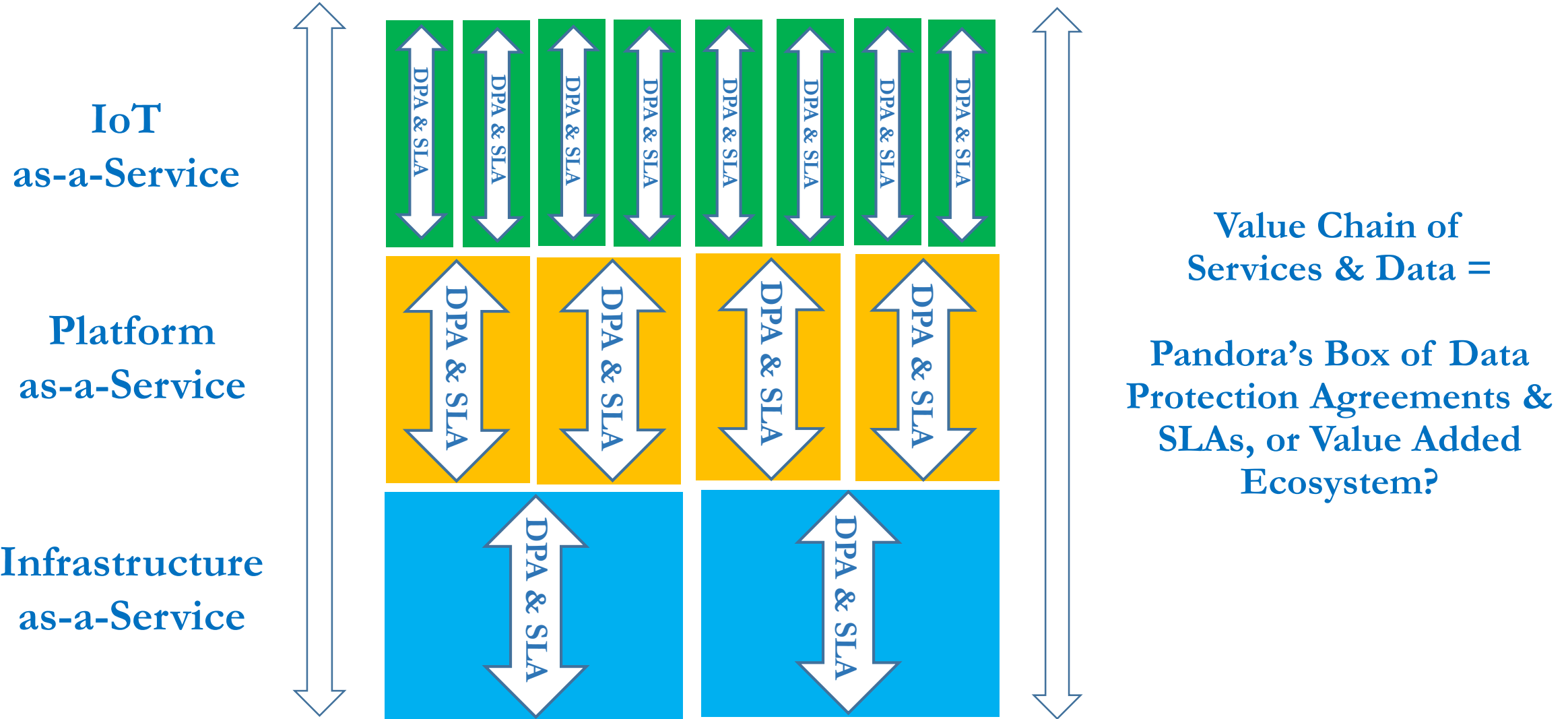ALLIANCE FOR INTERNET OF THINGS INNOVATION

Where to Find the **GDPR Relevant Agreements?** *

1. **Privacy Policy & Cookies Statement**
2. **Terms & Conditions (Guest-centric)**
3. **Internal Human Capital/Resources Manuals (where relevant)**
4. **Security Policy (where relevant)**
5. **Data Processor Agreement**
6. **Purchase Terms & Conditions (Procurement-centric)**
7. **Service Level Agreement (SLA)**
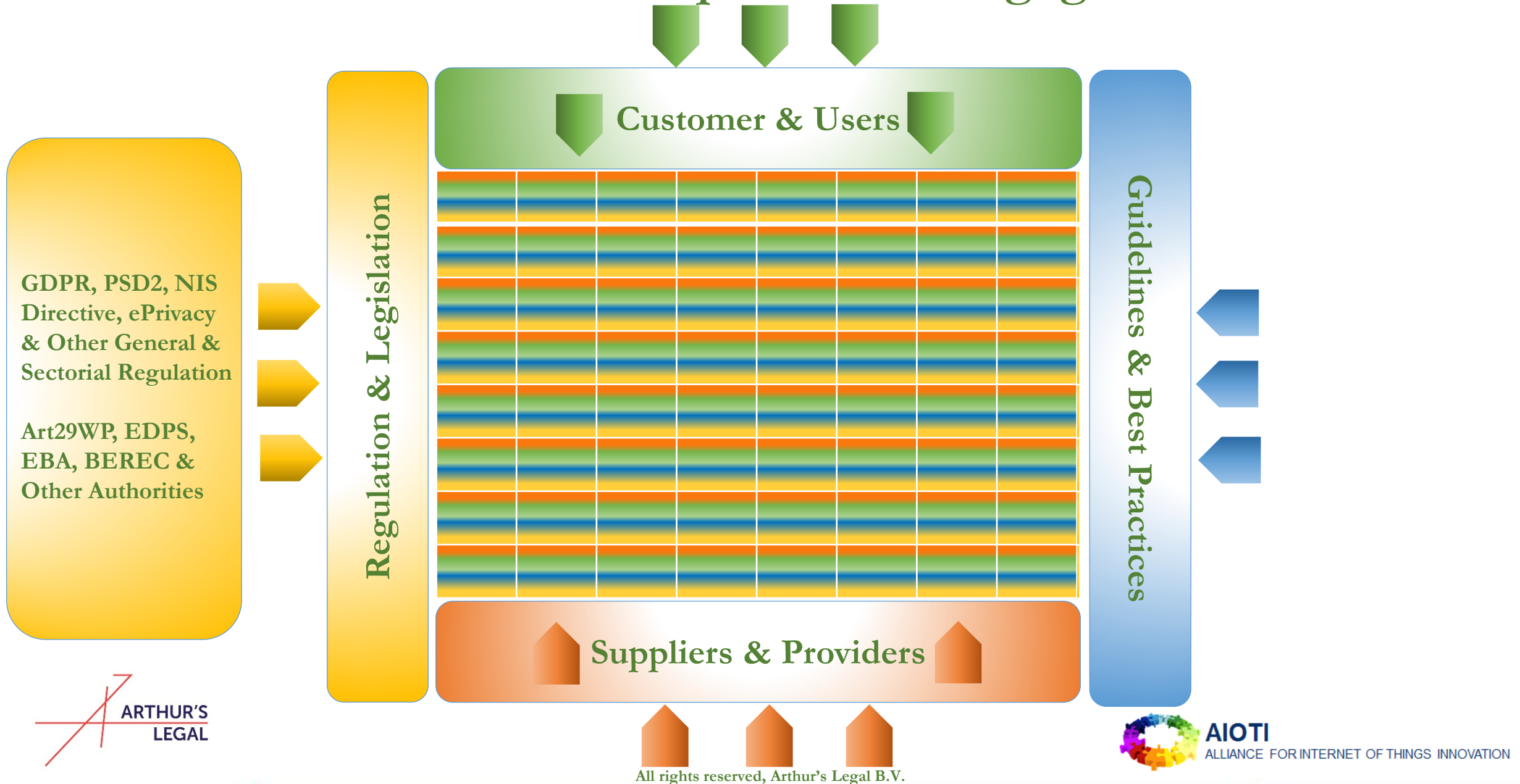8. **Business Continuity Policy / Disaster Recovery Plan**

* Make sure to obtain & send the complete set of documentation, including schedules, annexes, links and other references.

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Trustworthy IoT As A Trustworthy Service

The Fifth Dimension Square: The Engagement Zone

Customer & Users

Regulation & Legislation

GDPR, PSD2, NIS Directive, ePrivacy & Other General & Sectorial Regulation

Art29WP, EDPS, EBA, BEREC & Other Authorities

Guidelines & Best Practices

Suppliers & Providers

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Making Informed Decisions about Physical-Cyber

Physical-Cyber Architecture

Offerings

Vendors Selection Zone

Dynamic Assurance

Real Time Performance

MSA/DPA & SLA Maturity

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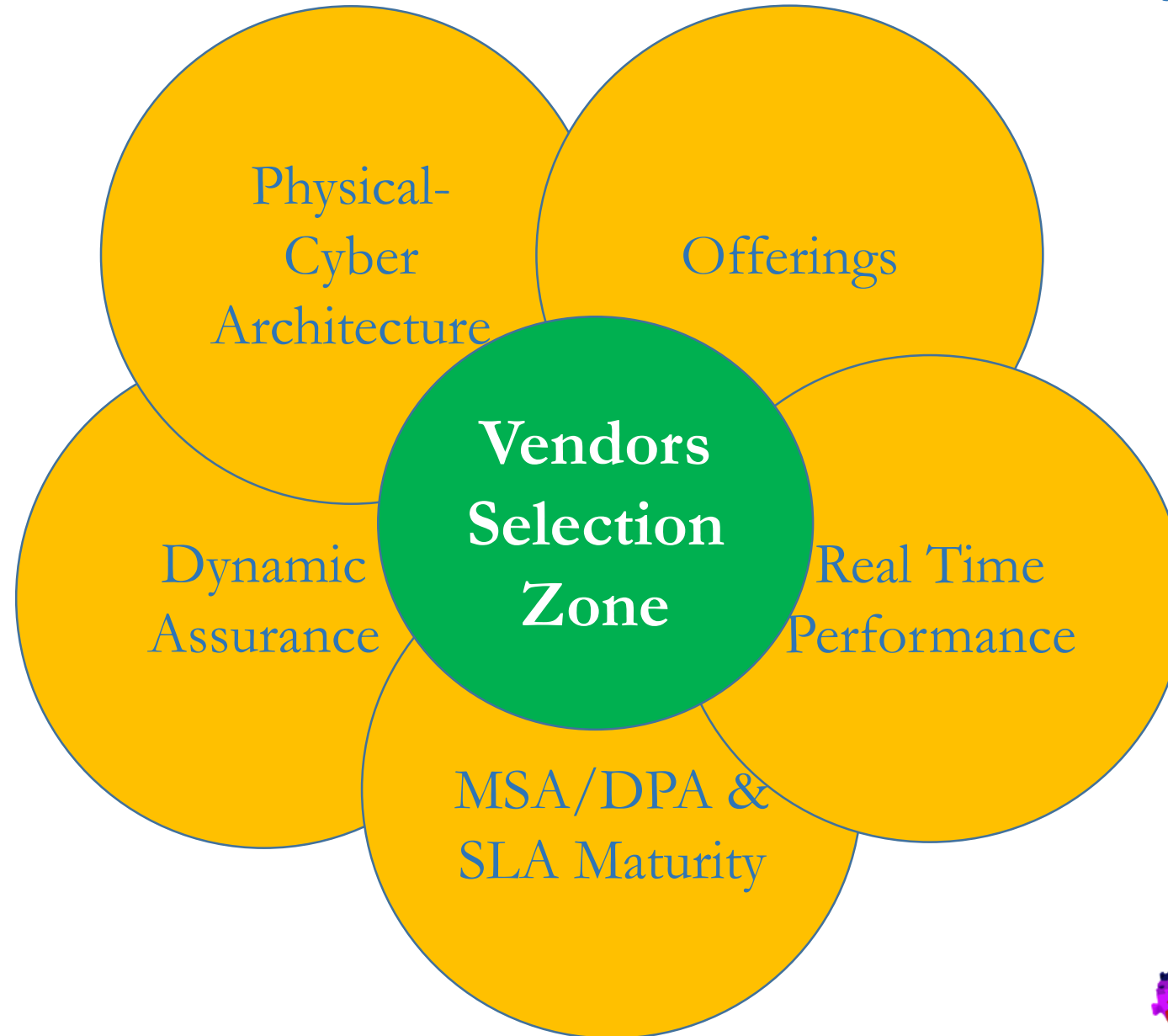
Collaboration

=

Common Understanding
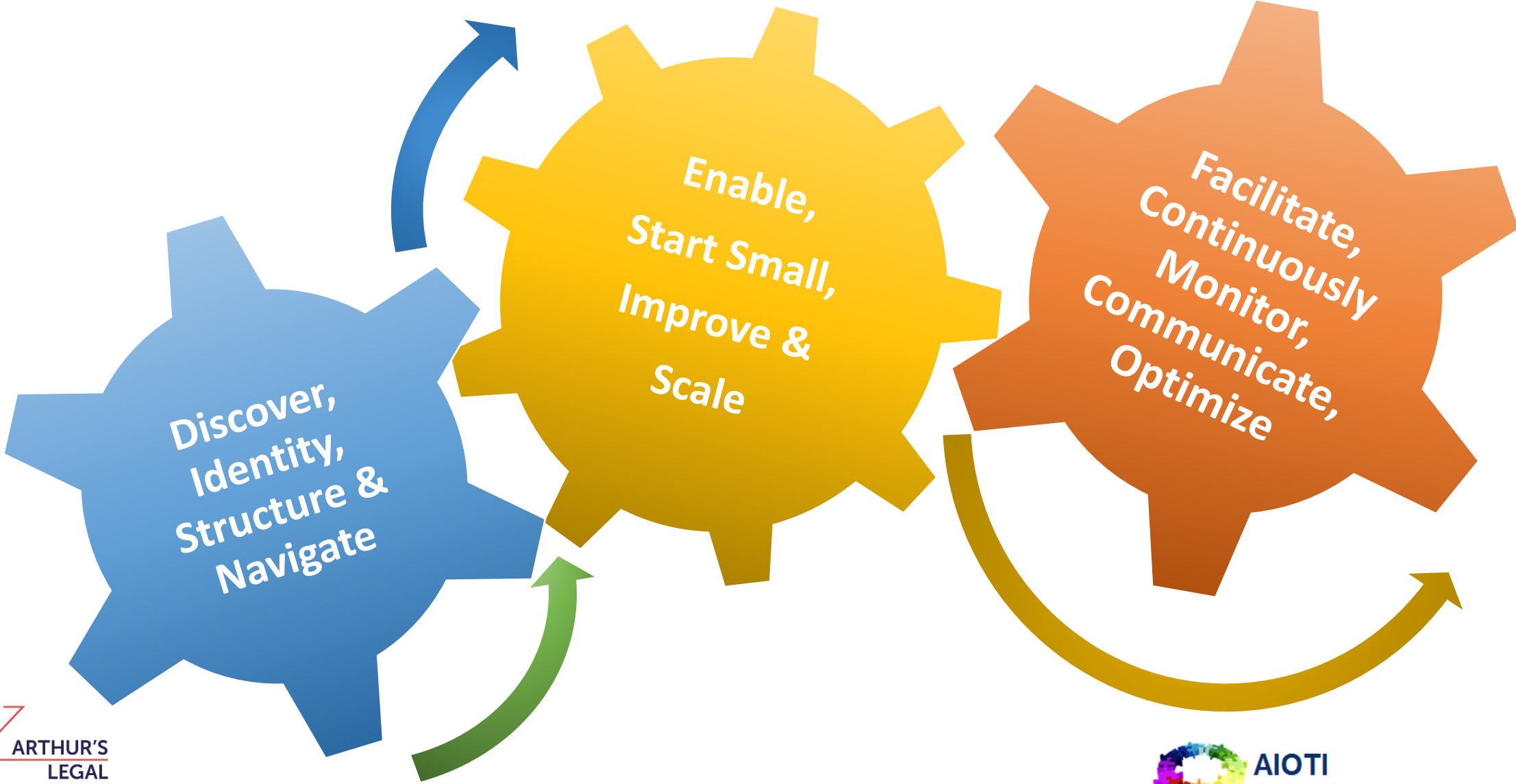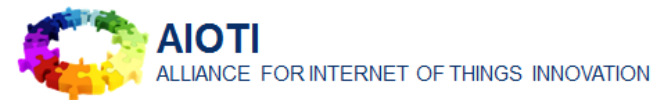
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IoT Ecosystems: Where to Start?

Discover, Identity, Structure & Navigate

Enable, Start Small, Improve & Scale

Facilitate, Continuously Monitor, Communicate, Optimize

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Scalable Living Labs

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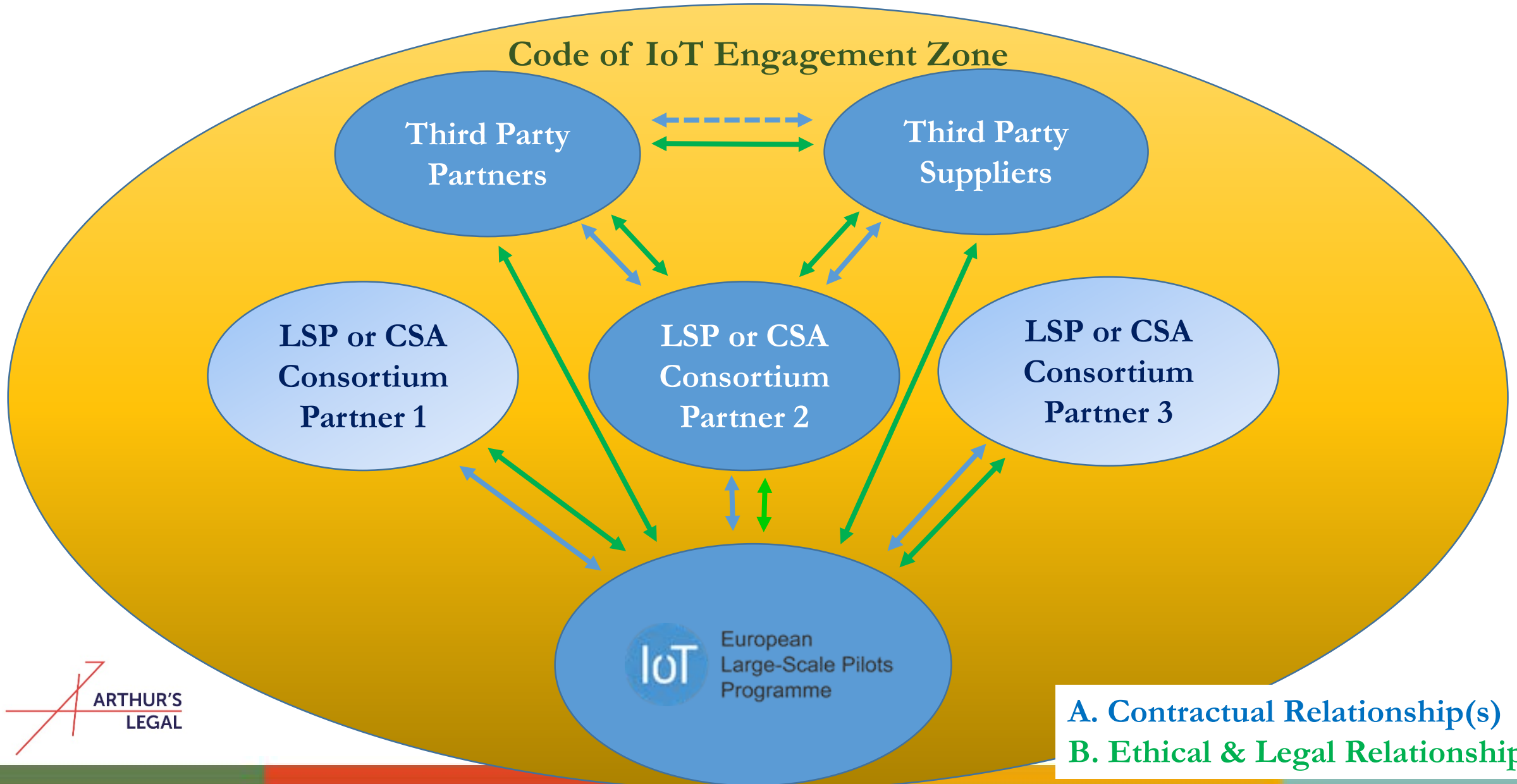ALLIANCE FOR INTERNET OF THINGS INNOVATION

Code of IoT Engagement

Ethical, Legal & Contractual Relationships between LSP & CSA Stakeholders

Code of IoT Engagement Zone

Third Party Partners

Third Party Suppliers

LSP or CSA Consortium Partner 1

LSP or CSA Consortium Partner 2

LSP or CSA Consortium Partner 3

IoT European Large-Scale Pilots Programme

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A. Contractual Relationship(s)
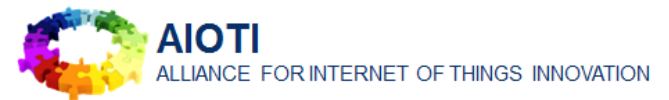B. Ethical & Legal Relationship(s)

Code of IoT Engagement

Ethical, Legal & Contractual Relationships between LSP & CSA Stakeholders

1. **Why this Code?**
2. **Who is Who?**
3. **Declaration of Adherence**
4. **Background Information**
5. **LifeCycle Thinking**
6. **Double Looping: S.I.M. (Scenarios, Impact, Measures)**
7. **Applicable Generic Regulation**
8. **Standardisation & Guidelines**
9. **Consequences of Non-adherence & Non-compliance**
10. **Appendices**
    a. **Ethical Principles**
    b. **Definitions**

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How to be ready for the digital, physical-cyber, cyber-physical future?

1. **TRANSPARENY FIRST** Misunderstood & Untrusted Data Economy v1.0: Clear Market Failure
2. **LOOK AROUND** Look at other sectors, cross-sectors and geographical areas. Gap-Analysis
3. **POLICY 2.0** Technology is fast, global & digital. Regulation & Authorities still v1.0, local & analogue
4. **THINK GLOBAL** Technology global. Policy topics are as well. Deploy, Improve & Export
5. **APPLIED INNOVATION** It is about action rather than study. Walk The Talk
6. **DEPLOY** Try, Fail Fast, Iterate, Pivot, Iterate & Succeed. Not trying is the only failing
7. **COLLABORATE** Join forces & brain power, exchange & collaborate. No really. Walk the Talk
8. **HYPERCONNECT** The Collaborative Approach (Human-Centric Technology)
9. **7 + 8 = MULTIPLICITY** Embrace & Leverage on Multiplicity (The symbiotic combination of diverse groups of people that work together with diverse groups of machines and algorithms to identify, address & solve problems, and make & execute decisions)

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Co-Creation, Collaboration & Human-Centric IoT Ecosystems As Enablers to Shape Our Future

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Man & Technology Symbiosis: Hyperconnectivity!
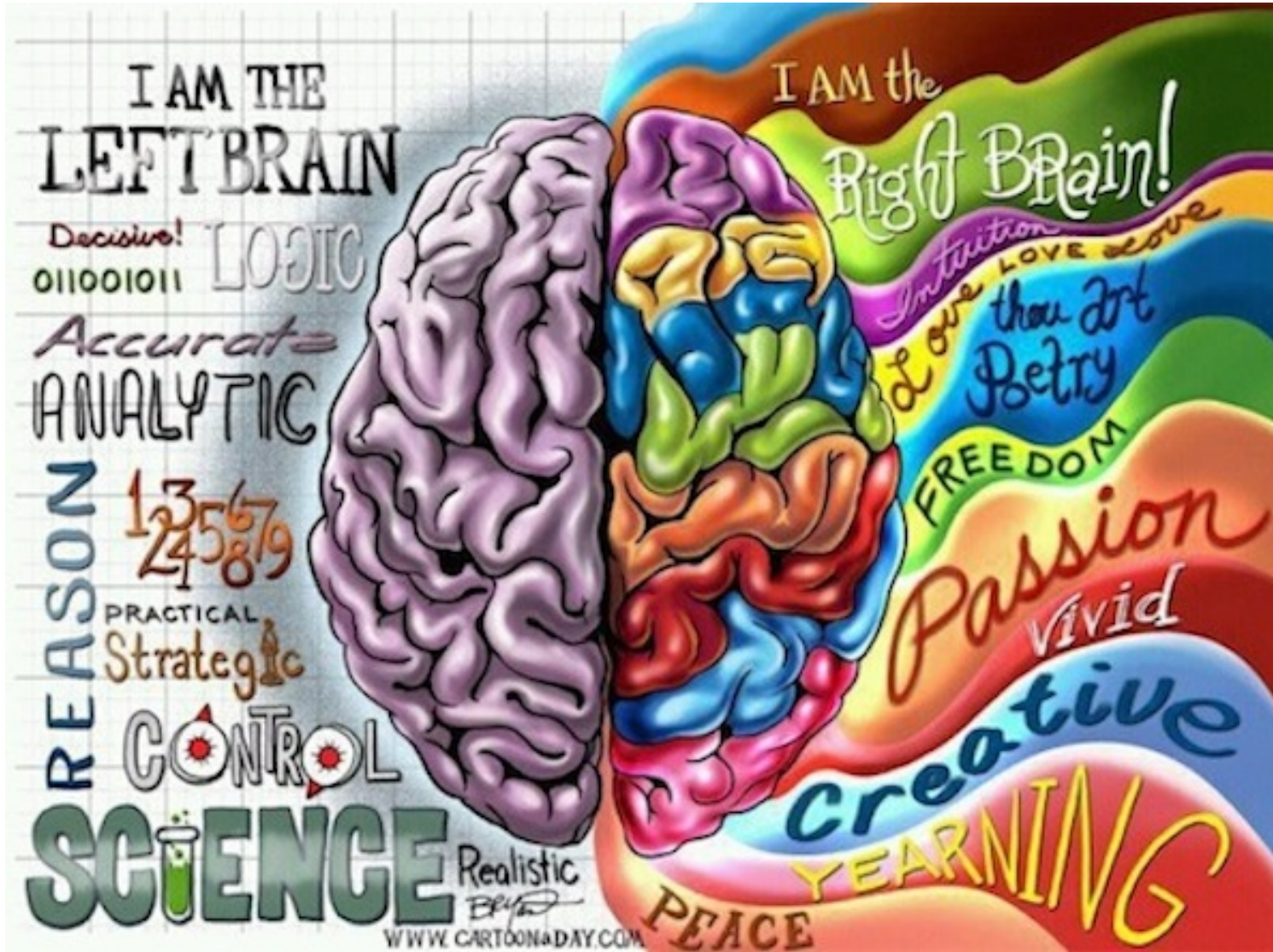
Q&A: Anything Goes!

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Arthur's Strategic Services & Systems } Global Tech & Strategies by Design. Est. 2001

Arthur's Legal: Arthur's Legal a global tech and strategic x-by-design law firm. Arthur's Legal is founded in 2001 and since its incorporation provides integrated full services, and mainly focuses on local and global private and public organizations that are active as customer, user, vendor, integrator, consultant, legislator or policy maker in the fields of IT, licensing, cloud computing, internet of things, data analytics, cybersecurity, robotics, distributed ledger (block chain) technology and artificial intelligence. Arthur's Legal is also a leading deal making expert; it has already structured and negotiated out more than 5.000 major technology and related deals with and for global Fortune companies as well as other major organizations in the public and private sector worldwide.

Arthur's Global Digital Strategies: The counsels of Arthur's Legal are legal experts, strategists, technologists, standardization specialists and frequent speakers worldwide, with in-depth experience and are well-connected in the world of technology, combinatoric innovation, data, digital, cybersecurity, (personal) data protection, standardization, risk management & global business. On these topics, its managing director Arthur van der Wees LLM is expert advisor to the European Commission, Dutch government as well as other public and private sector organizations and institutes worldwide.

Trust, Digital Data, Cybersecurity, Algorithms, AI, Robotics & Internet of Things:
Arthur's Legal is Founding Member of European Commission's (EC) Alliance of IoT Innovation (AIOTI), Co-Chair of AIOTI WG4 (Policy), Project Leader of both the AIOTI Security in IoT and Privacy in IoT taskforces, co-author of EC's Cloud SLA Standardisation Guidelines, co-author of Cloud Security Alliance's Privacy Level Agreement (PLA) 2.0, co-contributor to ISO standards such as ISO/IEC 19086 (Cloud Computing), co-author of the IERC Handbooks 2016 (Strategic & Legal Challenges in IoT) and 2017 (Security & Privacy in IoT), member of ESCO and co-author of the Dutch National Smart Cities Strategy. Arthur's Legal is co-founder of CloudQuadrants on the maturity of cloud offerings, the Cyberchess Institute that landscapes the real-life cybersecurity arena, the Cyber Trust Institute that sets trust trajectories and orbital requirements and parameters for technology-as-a-service, the Institute for Next Generation Compliance that promotes the restructuring and automation of compliance and related procurement, and the Institute for Data and Evidence Based Trust that aims to build and enhance trust and data protection in open, decentralized digital, cyber-physical and virtual ecosystems. Furthermore, Arthur's Legal is EC H2020 project IoT CREATE consortium partner and activity group leader on trust, security, safety, privacy, legal and compliance topics in IoT in five EU large scale pilots on smart healthcare, smart cities, wearables, smart farming, food safety and autonomous vehicles with EUR 250M of accrued EC and other funding. Together with IDC Arthur's Legal is also doing research and policy making for the Commission on data portability & application portability. One can build it's own AI with Zapplied.

Connected & Hyper-connected: Arthur's Legal has an unique interdisciplinary 3D-angle & x-by-design approach, connecting vital topics such as usability, security, data management, (personal) data protection, compliance with technology, infrastructure, architecture and global standardization thereof, with the capability and ability to connect those components in hyper-connected ecosystems much earlier (read: pro-active, preventative) than the traditional policy-making, legal and compliance practice does. For upcoming events, key notes and other activities, please check out website, stay up to date via its social media channels, or contact us.

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Trustworthy Internet
of Everything & Everybody
for the Wellbeing of People and Planet

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