



Good Practitioner-led Innovation

Use cases, scenarios, SIA, EIA

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Practitioner-led innovation – why?



New Reality of DRM



Disruptive innovation



Unknowable outcomes



Practitioners know best



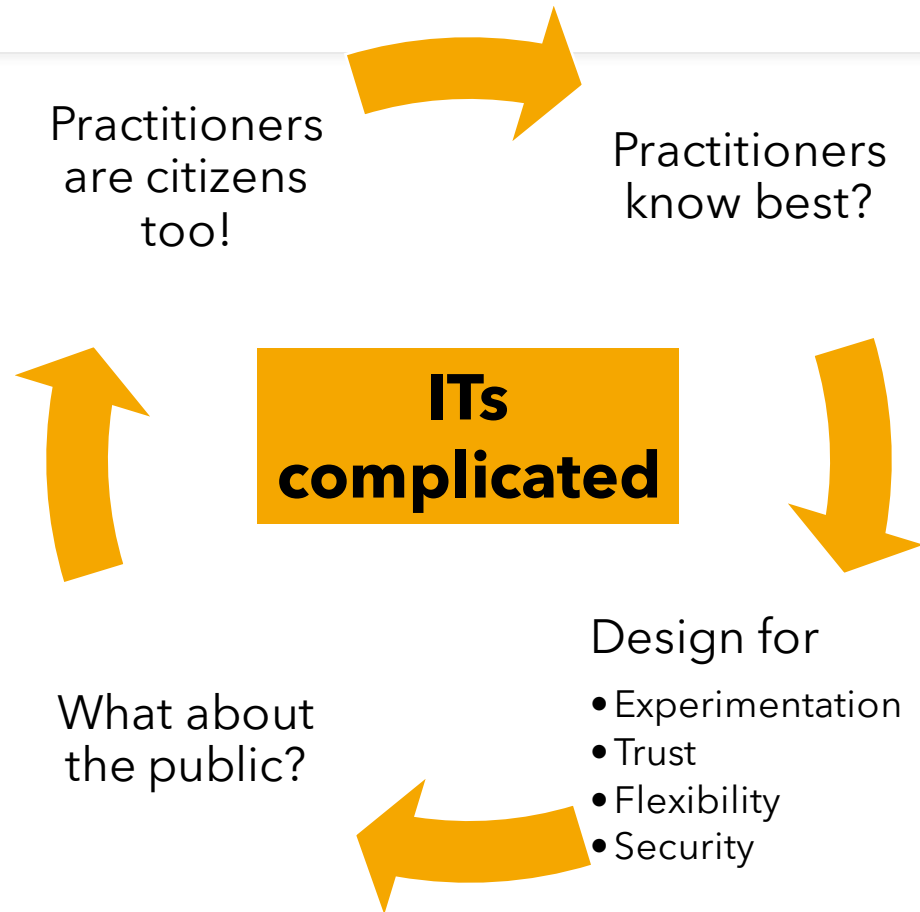
[DHS Science and Technology Directorate](#)

Costly mistakes

- annual cost of IS failures in Western **Europe** adds up to US\$140 billion ([Dalcher and Genus 2003](#))
- **UK Firecontrol £ 500m** (2011)
- Too big to fail: **EPIC** in Denmark ([Allan 2019](#))
- UK Contact Tracing: concerns that the £12bn system has failed to keep up with the second wave, which it was supposed to help prevent ([Halliday 12 Nov 2020](#))



What are the challenges?



AI, IoT and Analytics

Nearly 5 billion connected things today,
Reaching 25 billion by 2020



Body cams and bio sensors

In 2017, £22,703,235 has been spent on 47,922 body worn cameras by UK's police forces.

California saw use of force by officers drop by 59 % when they wore cameras, and complaints about officers falling by 87 %



Piling on pressure?

- BWV should always record
- Officers and PCSOs should use discretion
- If the BWV is switched off, distorted, blocked or simply not turned on without good reason a thorough investigation must take place



Doing Innovation Together



**'Good' as a tick box list is not good enough
It's a matter of making innovation good
together**

What do we need to make innovation good together?

- Use cases
- Scenarios
- Ethical Impact Assessment
- Social Impact Assessment
- Methods for creating, experimenting, evaluating



A USE CASE EXCHANGE – WHY?

Posted on December 8, 2018

Public Safety Communications Europe drives innovation through dialogue between practitioners, technology developers, policy makers, publics. Use cases can provide

- a concrete substrate for creativity and dialogue
- a view of possible, preferable, probable futures
- detail for critical review *before* getting too far down a road

Use cases can show the complexity of solutions we need — Workshop Participant.



Scenarios

- For innovation
- For training
- For experimentation



HOME PCP PROGRESS CHALLENGE NEWS OUTPUTS CONTACT Q

Use Case Scenarios

The following describes a number of example scenarios where the BroadWay solution is vital to support communication during complex pan-European events



Rescue operation – Barge of Irregular Migrants

A barge of irregular migrants needs urgent rescue action based on safety of life at sea. The vessel is drifting without steering with about 300 migrants on-board 100 Nm from the shore, in the Gulf of Cadiz. It will be a joint rescue operation by Portugal and Spain.



Rescue operation – A Cruising ship on fire at Adriatic Sea

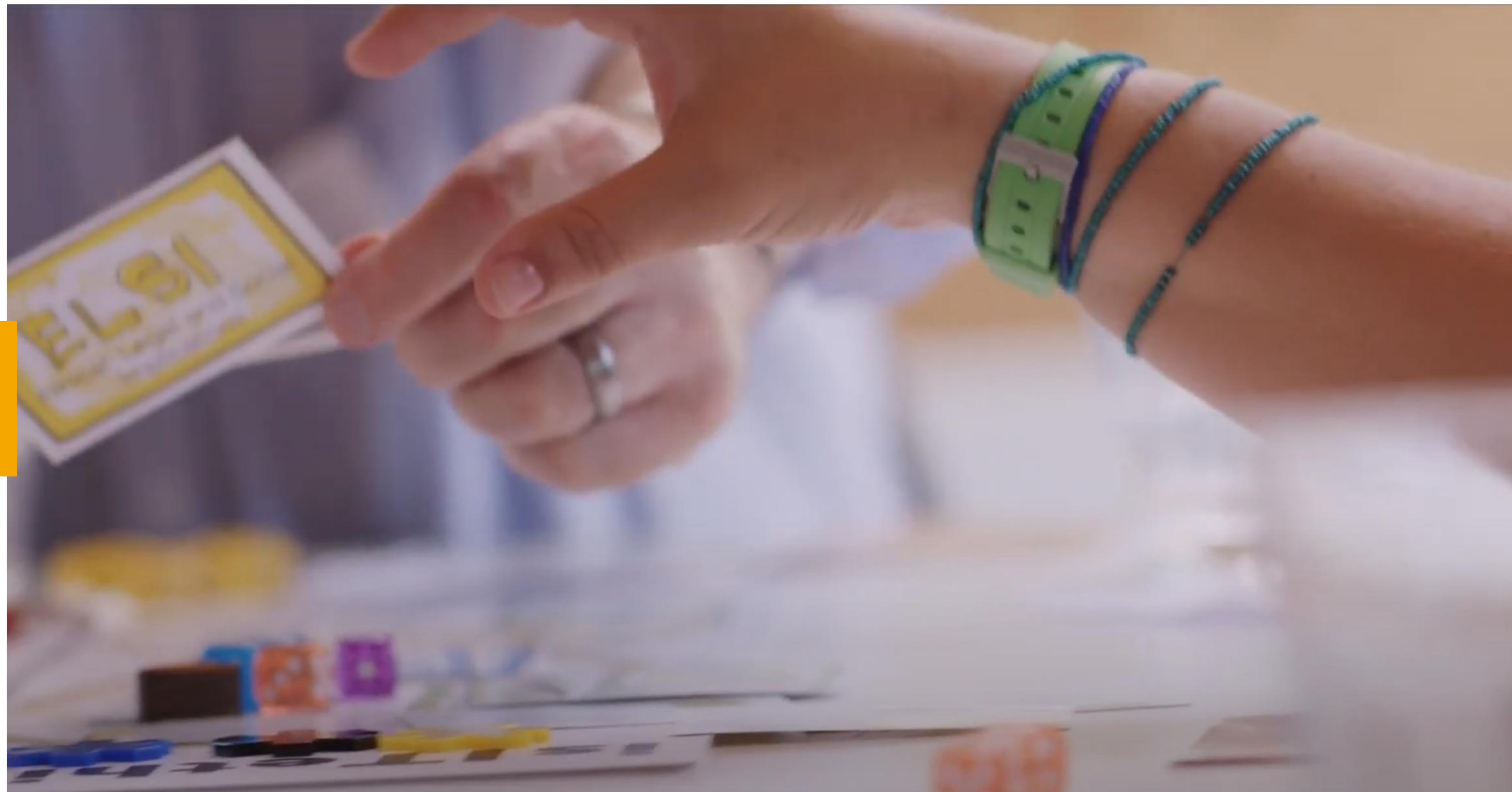
A cruise ship bound from Brindisi (Italy) to Patras (Greece) with 1500 passengers on board has a fire on-board. The position is 40 miles east from Corfu. The mission principles are the same as the previous case – only the number of proceeding merchant vessels will be added to the case.



Following a “go fast” drug convoy from south of Spain to Germany

Spanish anti-drug investigation services gained intelligence about a go-fast convoy starting from Malaga. The presumed destination is Hamburg (Germany). The vehicle is driving via southern France to Germany via Belgium and Holland. The original group from Spain moves to be active in countries where the convoy is, at that moment.

TRUST – in technology & in collaborating partners



Key Terms



ACCESSIBILITY



ACCOUNTABILITY



ADAPTABILITY



ANONYMITY



ELSI GUIDANCE

-  **ESTABLISHING A CIS FRAMEWORK**
Codes of Conduct and Ethics
-  **COLLABORATIVE GOVERNANCE**
Decision Making
-  **DATA INTEROPERABILITY**
Digital Divides
-  **ORGNISATIONAL INTEROPERABILITY**
Recognising Relevant Collaborators
-  **LAWFUL CONDUCT**
Privacy and Personal Data Protection
-  **OTHER TECHNOLOGIES**
Broadband

www.isitethical.eu



Cross-Border Collaborations

Cross-border collaboration is a challenge as it can be difficult to break organisational habits of silo-thinking. However, disasters do not respect borders and increased technological, organisational, and international interoperability can be immensely beneficial. This means that there is a greater need for collaborative information management to encourage horizontal, not just vertical communication. The purpose of the European Union (EU)'s General Data Protection Regulation (GDPR) is to facilitate data sharing across the EU and to clarify the approach that should be taken to organisations lying outside of this political area. Adherence to its principles and using its principles to negotiate cross-border collaborations should lead to greater clarity in the negotiation of agreements and strategies.

Guiding Questions

How can collaboration be set up to support finding the right counterparts in other organisations, regions, or countries?

What mechanism are implemented to share data and find common understandings?

Key Terms



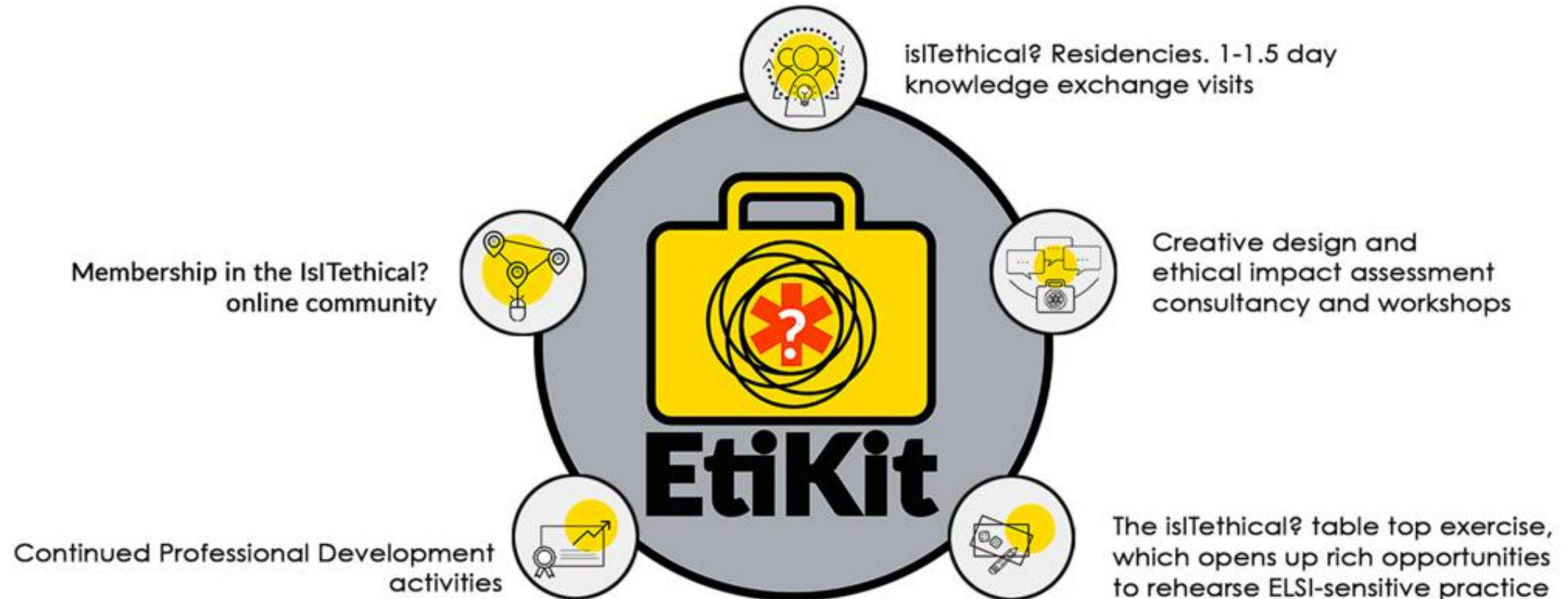
AUTONOMY



DATA PROTECTION



We provide a range of services and support:



Social and Societal Impact Assessment

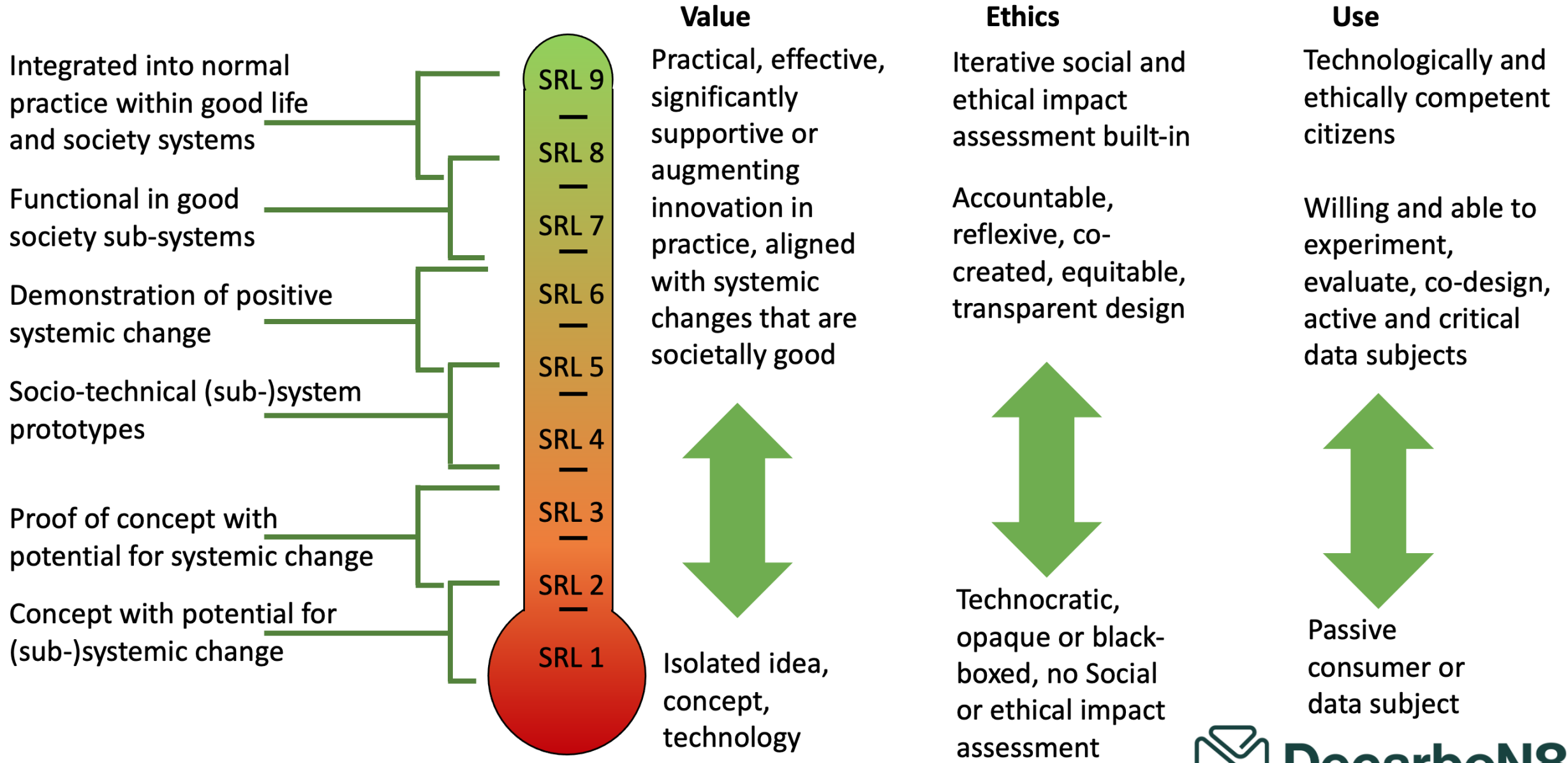


**D913.31 – SOCIETAL IMPACT ASSESSMENT
FRAMEWORK- VERSION 2**

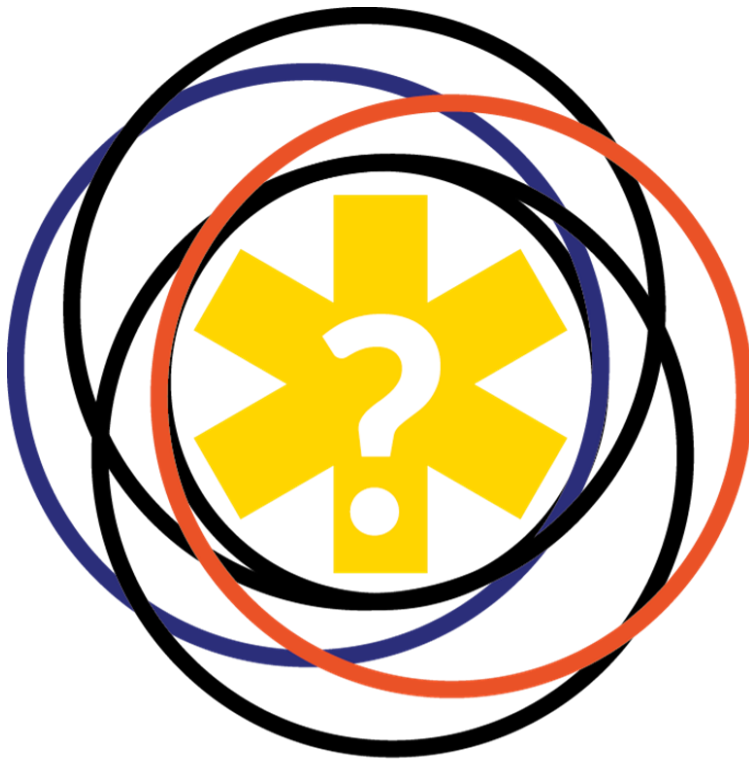
the technologies might be ready to share data and video, [but] the public is not ... We need to convince them'.

Guillaume Lambert, Head of Public Safety
Broadband, French Interior Ministry, [2019](#)
[Public Safety Communications](#)
[Europe Conference in Paris](#)

isITethical Societal Readiness Levels Framework Responses, response-ability



How to do good practitioner-led innovation?



- Bringing practitioners, IT developers, researchers together
- Support knowledge exchange and co-creation
- Demand and make ambitious designs

Use Cases and Scenarios for Good Practitioner-led Innovation in PPDR

Workshop 20th Nov 2020 <https://www.psc-europe.eu/news-events/news/494-upcoming-psce-webinar-use-cases-and-scenarios-for-good-practitioner-led-innovation-in-ppdr.html>

Let's get to work :)

Engaging societal and ethical impact with uses cases and trials,
Katrina Petersen (Trilateral), Adam Widera (University Munster)

Presenting Scenario Builder, Anax Fotopoulos, Exus Innovation

Gaming as a research method, Tina Comes, Delft University

Workshop: Building a Use Case+ Exchange