



German Federal Agency for Technical Relief (THW), Klaus-Dieter Büttgen, SAYSO Project Director Hanna Maria Burkow, SAYSO Project Coordinator

EfA-Roundtable 12 and 13 July 2019, Nis, Serbia – The SAYSO project and the SAYSO Governance Body

What was SAYSO about?





What was SAYSO



Situration take variety mession and large volumes of varying data from different sources quickly, to know and understand what is going on

- · What? -> Perceiving elements of current situation (level 1)
- So what? -> Comprehending of current situation (level 2)

-> Consider projection of future status → Now what?

What? Perception of elements in current situation

el 3) Cognition

So what? Comprehen -sion of current situation

Judgement

Now What? Projection of future status

Decisio making

Performan ce of action

What was SAYSO



about? (2/3) rdinated president Shall be supposed to the suppose of stake to be supposed to the suppose of the

 SAYSO aims to pave the way for the development of innovative Situational Awareness Systems for improved coordination of multi-stakeholder emergency responses and civil



- Methodispedifications and corresponding Reference Architecture for beyond the State-of-the-Art Situational Awareness tools, which
 - fulfil end-user requirements
 - can be used across different organisations, command levels and national borders
- Provide information & tools that Public Procurement Authorities need to e.g. launch pre-commercial procurements required to

What was SAYSO

functionalities





Gather & identify a set of requirements of European practitioners & emergency responders for future Situational Awareness System for Multiple Stakeholders



Phase 2

Define the system **specifications** & a **reference architecture of a** MSSAS on basis of requirements (assess technical feasibility of specifications supported by the project's network of suppliers)

Analyse systems currently used, existing and new tools and



Establish a symbol library

Integrate relevant existing standards & input for future standardisation activities in shared situational awareness



- Provide information about process of Pre-Commercial Procurement (**PCP**) & Public Procurement of Innovative Solutions (PPI)
- Provide a toolkit to Public Procurement Authorities for future procurement of SAYSO-compliant SAS (procurers handbook, tender documents)
- Create an open call platform for future procurement activity, and online registry of suppliers and procurers of SAYSO-compliant systems

Network & community

Establish and maintain a sustainable network and community of practitioners, suppliers and procurers of Multi-Stakeholder Situational Awareness Systems

SAYSO Consortium



The SAYSO consortium was **led by THW** (Federal Agency for

Technical Relief, Germany) and involved collaboration between 12 partners across Europe.





















SAYSO was supported by an **Advisory Board** made up of expert practitioners and procurement advisors, and an independent consultant (former WHO Special Advisor). The following

organications were included.









Overview:

Areas addressed and results achieved Standardisation of situational Awareness systems to Strengthen Operations in civil protection







- Analysed systems currently used, existing and new tools and functionalities

Achievements & Output:

- Phase 1 8 v
- Requirement
- Two surveys;
- ® Various workshops and face-to-face meetings with practitioners and suppliers;
- 8 A comprehensive requirements' description and a list of requirements;
- An extensive literature review.

The above mentioned led to the production of:

- State-of-the-Art Analysis of existing solutions (D2.1);
- 8 An inventory of practitioners' requirements (D2.2);
- ® A series of reference scenarios (D2.3);
- ® An analysis of the gaps between the State-of-the-Art and the requirements of practitioners (D2.4).







Phase 2

Specification

- Defined the system specifications & a reference architecture of a
 MSSAS on basis of requirements and technical feasibility O
- Established a symbol library O
- Integrated relevant existing standards & input for future standardisation activities in shared situational awareness

Achievements & Output:

- ® An analysis of the input and output data formats used by EU crisis response organisations (D3.1);
- A common EU Community Crisis Management Library collecting symbols, terminology and reference documents used across Europe (D3.2);
- The design of specifications and a flexible reference architecture for future Situational Awareness systems integrating the most important requirements of EU practitioners and emergency responders collected by SAYSO (D3.3);
- 8 Proposing a roadmap for the future development of Multi-Stakeholders Situational Awareness Systems (D3.4);
- ® Proposing a roadmap for the future standardisation activities related to MSSAS (D3.5).





Provided information about process of Pre-Commercial Procurement (PCP)
 & Public Procurement of Innovative Solutions (PPI)

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Phase 3
Procurement

Achievements & Output:

- The production of the **Procurers' handbook** (D4.3) and the necessary tender documents for the procurement of MSSAS (D4.2);
- The creation of tools to help connect procurers to suppliers: the Supply and Demand Online Registry (D4.1) and the Open Call Platform (D4.4);
- A presentation of PCP & PPI and of the tools provided by SAYSO to an audience during two public workshops (December 2018 and April 2019) and a procurers' workshop (March 2019).





Established and maintained a sustainable network and community of practitioners, suppliers and procurers of MSSAS O

All phases
Network &
community

Achievements & Output:

- ® Reaching out to 450 contacts around Europe, 35 EU projects, 37 EU or member state-level associations of stakeholders, 335 followers on Twitter;
- ® Organisation of 3 public workshops and 4 experts' meetings;
- ® Extensive partner and project level dissemination;
- Set up of the SAYSO Governance Body.

• Example 1:

Inventory of requirements of practitioners and emergency standardisation of situational Awareness systems to Strangthen Operations in civil protection responders



Approach and some results A Standardisation of situational Awareness systems Standardisation of protection Asurangum Operations in civil protection



Approach to the collection of requirements

- Standardisation of situational Awareness systems to Strengthen Operations in civil protection
- Addressing practitioners of CP, emergency responders & crisis managers
- SAYSO workshops, meetings & survey → data & findings
 - 1st Technical Expert Meeting, Back
 Neuenahr June 2017
 - 1st version of an online SAYSO survey – July 2017
 - 2nd Technical Expert Meeting,
 Salzburg Jan 2018
 - · 1st Public Workshop, Berlin –





Pinned Tweet

SAYSO project @Sayso_H2020 · Jun 20

All #EU #practitioners and #emergencyresponders, please take a few minutes to tell us what systems YOU need to support you during #civilprotection operations. Complete the @Sayso_H2020 survey: ec.europa.eu/eusurvey/runne... #EUCivPro #SituationalAwareness @CORDIS_EU @EU H2020



III 1 Devices

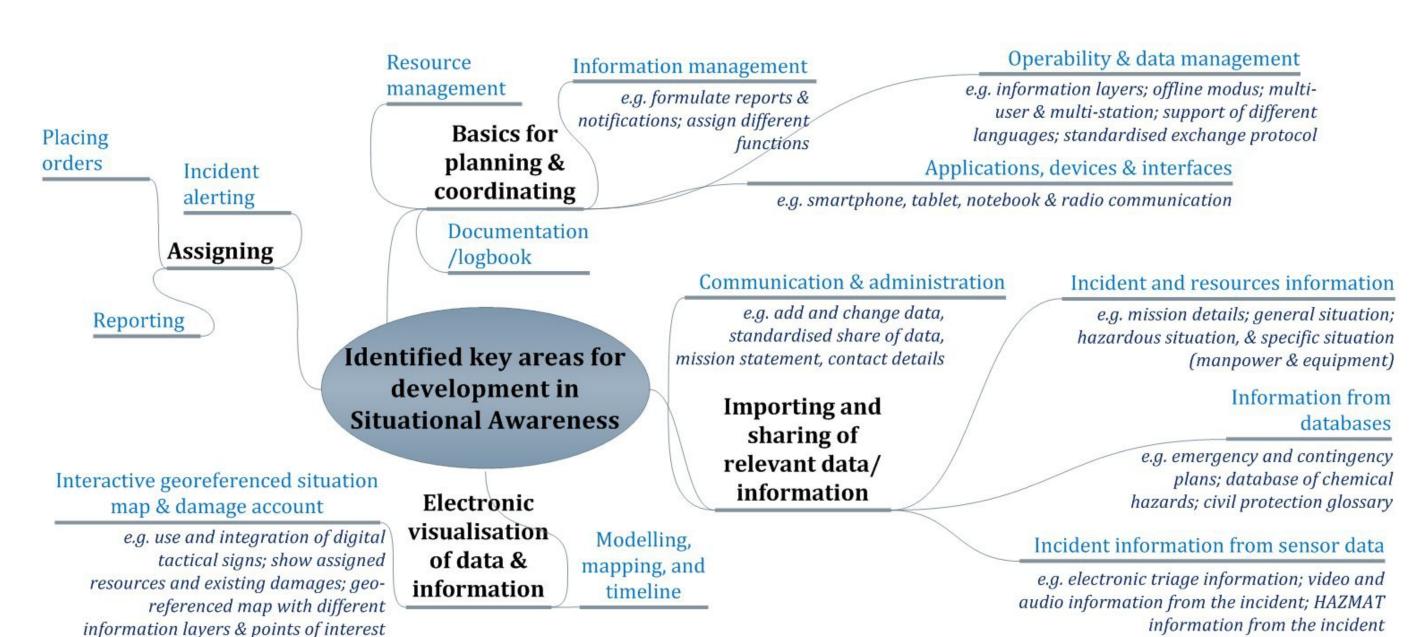
Does your organisation use any of the following devices during Civil Protection (CP) missions?

	Yes	No
Smartphone	0	0
Tablet	0	0
Notebook	0	0
Radio communication	0	0
Satellite communication (satellite phone)	0	0
Digital situation wall	0	0
Multi-touch or tangible tables	0	0
Durable, water-dust resistant devices ready to operate properly in the most extreme environments, and operational with gloves, both medical and technical	0	0
Wearable devices as smart watches	0	0

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Results practitioners' requirements? – Key areas





Results practitioners' requirements – Challenges for adoption of new Situational Awareness technologies



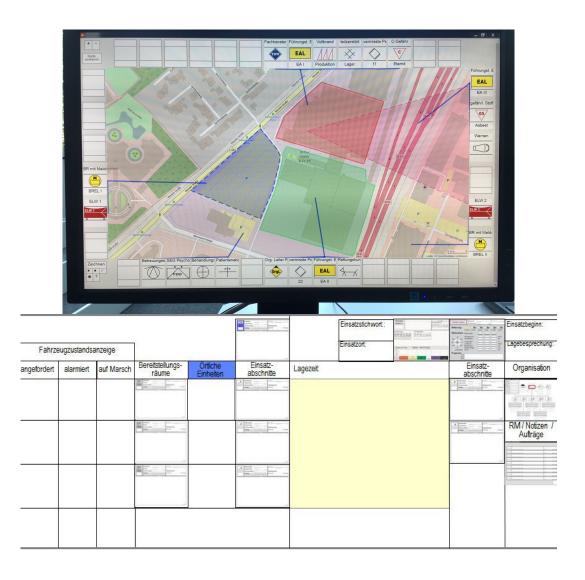
- The mind-set & willingness of practitioners for acceptance of innovations and new technologies, knowledge about technology
- The organisational structure of the practitioners' organisation
- The personnel and



Results practitioners' requirements – Short summary of key findings



- Existing technological solutions (COTS) largely meet requirements as defined by practitioners in the SAYSO surveys, workshops, and meetings
- It was found a significant gap: tools that are potentially available are often not used, especially with regard to information collection and its use in decision making ("lack of usage")



- · Some examples



Approach to the



- Sonline questionnaire addressed European civil protection practitioners and emergency responders in the field of technical relief, firefighters, police, paramedics and other relevant actors in civil protection as local/regional administration level
- 139 responses were analysed
- Replies covered **13 European countries** (Austria, Belgium, Croatia, Czech Republik, Denmark, France, Germany, Greece, Italy, Republic of Ireland, Spain, The Netherlands, United Kingdom), and other countries (Israel, Norway, Pakistan)
- Major share of replies are from Germany (53%), mainly Technical Relief, and the United Kingdom

Survey, Basics: I Importance of coordination, communication & alerting instruments



Survey, Basics II: Importance of data management functions



Survey, Data/information needed: Importance of sensor devices for collecting data



Short summary of survey requirements



- Demand of **basic Situational Awareness support** by means of technology, to integrate relevant data, visualise the data and share/exchange data with other practitioners easily, safe and quickly in a standardised way.
- Situational Awareness tools should be **easy to use** and train, intuitive, robust and reliable.
- Using "higher-level technology" as radar, lidar, camera ball with multiple cameras, or tactical robot seems not to be the most important part.
- Importance of data security and safety: current mistrust of certain technologies by practitioners, such as the social media or cloud services.

Outlook: Recommendations



- Important to further bring together practitioners, suppliers and procurers for further exchange (which was one aim of SAYSO)
 - Practitioners could see what technology is already state-of-the-art and available
 - Suppliers could get to know more about the needs and requirements of practitioners
 - Procurers provide possibilities to procure solutions or to bring solutions in the market
- Further exchange/discussion beyond SAYSO useful with practitioners, suppliers and procurers
- The SAYSO Governance Body as possible discussion board, initiating further activity in cross-

EfA-Roundtable 12 and 13 July 2019, Nis Serbia The SAYSO project and the SAYSO Governance Body DOrder Situational Aware ness?

• Example 2:

SAYSO Roadmap for future enhanced SAS & Standardisation of situational Awareness systems roadmap/recommen-dations for standardisation



Roadmap for further development of SAS for Multiple Stakeholders: Action Plan



Standardisation: Recommendations on Shared Situational Av

• Example 3:

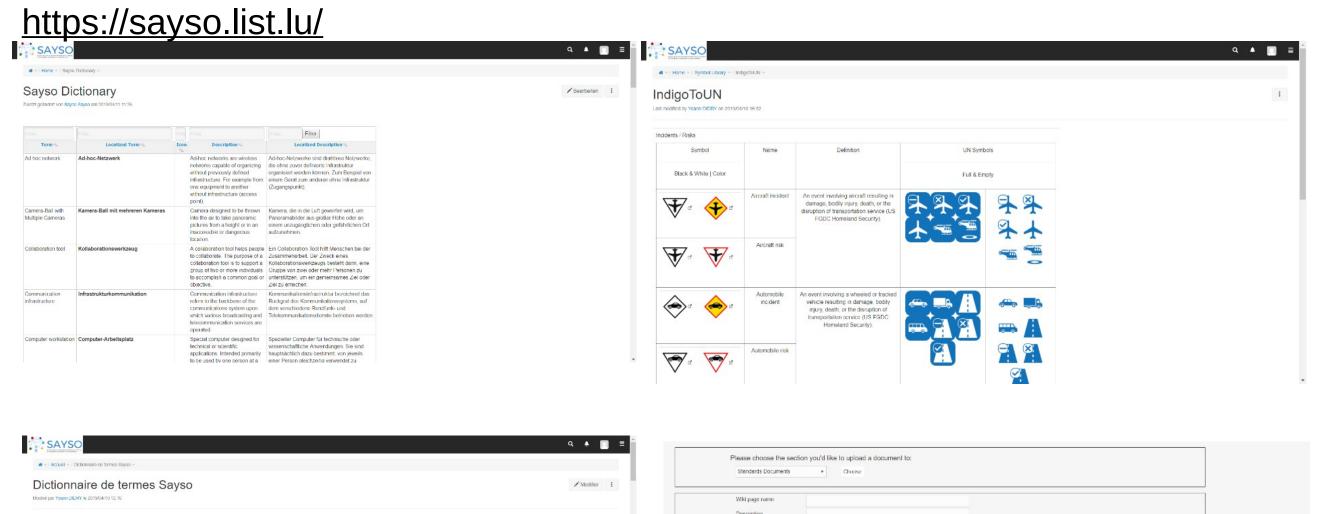
SAYSO library of terms and symbols

Standardisation of situational Awareness systems to Strengthen Operations in civil protection



SAYSO library of terms and symbols (SAYSO)

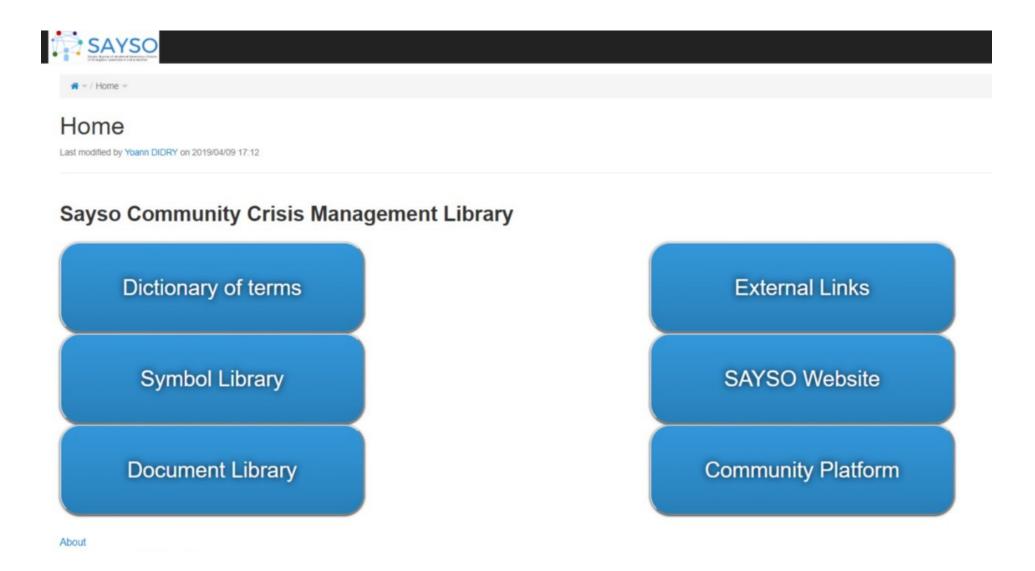




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Welcome screen





The SAYSO Governance Body





Aim and structure of the SAYSO SOLUTION OF THE CONTRIBUTION OF THE



The SAYSO Governance Body – Aim and idea



- Use the SAYSO results and recommendations (e.g. requirements, specifications, roadmaps for further standardisation and future SAS, procurement material) for own use or further European research/activity
- Promote the topic of Situational Awareness and Situational Awareness tools, functions and system
- Establish an **exchange** among the



EU practitioners (e.g. exchanging EfA-Roundtable 12 and 13 July 2019; His, Serbia – The SAYSO project and the SAYSO Governance Bodlessons learned and best practice

The SAYSO Governance Body – Proposed structure



- The SAYSO Governance Body will be chaired by Mr Albrecht Broemme, president of THW (SAYSO coordinating organisation), as part of the European Fire Academy. So far, the following members have agreed to participate to the SAYSO Governance Body:
 - Dr.-Ing. Hauke Speth from the Fire Department Dortmund (Germany), head of department education and training
 - AL Mag. Robert Stocker from the Federal Ministry of the Interior (Vienna, Austria), head of department
 - Ing. Andreas M. Herndler from the Austrian Firefighters, Chief of the Operational Headquarter of Lower Austria (Austria)

of Lower Austria (Austria)

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Body Andreas Santner from the Salzburg Avalanche

Next possible steps for the SAYSO SO GOVERNATION and open questions for

discussion



The SAYSO Governance Body – Status and next steps



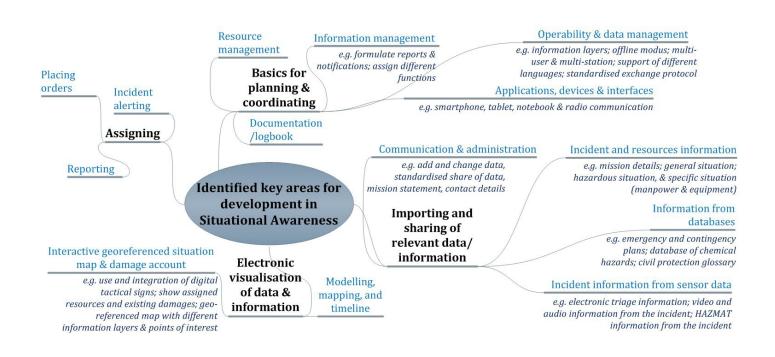
- SAYSO Governance Body formally is launched with inauguration today
- A Charter of Rules will be presented and agreed on
- Discussion about possible fields of action

Open question: Future use of the inventory of requirements (& functionality



design/reference architecture)

Example 1: Is there the need to use the inventory of requirements (along with the defined functionalities of the design and its reference architecture)?

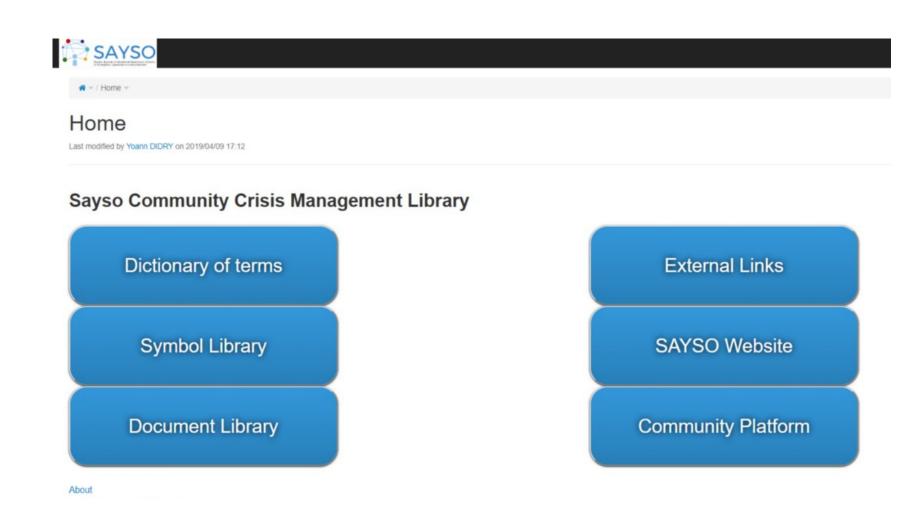




Open question: Future use of the library?



- Library of terms and symbols will be kept alive after SAYSO (by responsible project partner LIST)
- Is there a need to use the library beyond SAYSO?
- Ideas for refinement?



Open question: Future use of the roadmaps?



- Example 3: Is there the need and the request to initiate further **standardisation activities** in shared situational awareness (e.g. standards for maps, terminology and symbols)?
- Example 3: Is there the need to initiate and implement further steps for Multiple Stakeholder Situational Awareness Systems (cross-border)?

• Questions?





Contact us



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For more information about SAYSO visit: www.sayso-project.eu or twitter.com/Sayso_H2020

Join the SA-IN-EU online community platform on cmt.eurtd.com/groups/profile/20479/sa-in-eu

Contact us by email: sayso coordination@eurtd.com



























Protecting and improving the nation's health

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