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# **Draft Project plan for the CEN Workshop on "Emergency Management - Rapid damage assessment of buildings and alerting protocol"**

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**Requests to participate in the Workshop  
and/or comments on the project plan are  
to be submitted by  
20.03.2022 to  
[speranta.stomff@asro.ro](mailto:speranta.stomff@asro.ro)<sup>1</sup>**

Recipients of this project plan are kindly requested to name all patent rights known to them to be relevant to the Workshop and to make available all supporting documents.

**Bucharest, 11.02.2022 (Version 1)**

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<sup>1</sup> Applications for participating in the Workshop and comments on the project plan that are not received by the deadline do not need to be taken into consideration. Once constituted, the Workshop will decide whether or not to consider the comments received in good time.

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# 1 Status of the project plan

**Draft project plan** for public commenting (Version 1.0)

This draft project plan informs the public of a new CEN Workshop on “Rapid damage assessment of buildings and alerting protocol.” Any interested party can participate in this Workshop and comment on this draft project plan. Please send any requests to participate or comments by email to **speranta.stomff@asro.ro**.

The stakeholders who expressed interest in participating or have sent comments on the project plan till the deadline will receive an invitation to the kick-off meeting of the Workshop on **22.03.2022**.

# 2 Workshop proposer and Workshop participants

## 2.1 Workshop proposer

<u>Person or organization</u>	<u>Short description and interest in the subject</u>
<p>Mr. Leonidas Perlepes  Satways Ltd.  3 Christou Lada Str, Chalandri, Greece  <a href="mailto:l.perlepes@satways.net">l.perlepes@satways.net</a></p>	<p><b>Satways Ltd.</b> is an SME, which main activity is the development of integrated Geospatial command and control systems and situational awareness solutions for the Security and Public Safety sector. Clients' list comprises organizations such as Fire Brigade, Police, Coast Guard, Medical Emergencies, Civil Protection, Critical Infrastructure Protection, and Border management Authorities. With core technology built on open standards, Satways offers a range of mission-critical enterprise solutions empowering governments and businesses worldwide to make better and faster operational decisions.</p> <p>Satways will exploit the outcome of the CWA discussions to update the C2 solutions provided by the company, supporting the preparedness and planning phases of the public safety agencies and the interoperability with third-party systems.</p> <p><b>Leonidas Perlepes</b>, R&amp;D manager, received his B.S.E. and M.Sc. degrees from the University of Thessaly, Greece, in Electrical and Computer Engineering. He received his Ph.D. in Wireless Sensor Networks from the University of Thessaly, Greece, in 2012. He has been involved in several EU-funded R&amp;D projects in the last decade. His research interests include Command &amp; Control systems, GIS systems, Wireless Sensor Networks, and embedded systems.</p>

## 2.2 Other potential participants

The envisaged CWA will be developed in the context of a Workshop (temporary body) inclusive to all interested parties. The participation of external experts would be helpful and is welcomed. It is recommended that:

- Representatives of European LEAs (including Fire Services, Police, Emergency Services, Coast Guard, Security Liaison Officers of Critical Entities, Army etc.)
- Representatives of first responders' organizations, acting as planners, actors and/ observers in exercises
- Representatives of civil protection authorities (both at national and local level)

- Scientists in civil protection and disaster management
- Members of related Technical Committees
- Participants in related Research Projects
- Representatives of DG ECHO, DG HOME

will take part in developing this CWA.

### 2.3 Participants at the kick-off meeting

The following persons or organizations already have signed up for joining the kick-off meeting before publication of the draft project plan.

<u>Person</u>	<u>Organization</u>
Workshop proposer: Leonidas Perlepes	SATWAYS Ltd
Dimitris Diagourtas Antonis Kostaridis Giorgios Eftychidis Giannis Chasiotis Katerina Valouma	SATWAYS Ltd
Gabriel Pestana Tiago Rocha da Silva	INOV INESC Inovação – Instituto de novas tecnologias (INOV)
Andrea Capaccioli Alessia Golfetti	Deep Blue SRL (DBL)
Janny Nijsingh	Safety Region Ijseselland – Veiligheidsregio Ijseselland (SRIJ)
Panos Michalis	Institute of Communication and Computer Systems (ICCS)
Marcello Marzoli	Ministero dell'interno (CNVVF)
Workshop secretariat: Speranta Stomff	Asociatia de Standardizare din România (ASRO)

### 2.4 Registered Workshop participants

The following persons or organizations have registered as Workshop participants at the kick-off meeting and will actively participate in developing the CWA.

<u>Person</u>	<u>Organization</u>
<u>Workshop Chair: Katerina Valouma</u>	<u>Satways Ltd.</u>
<u>Workshop Vice-Chair</u>	<u>Workshop Vice-Chair</u>
<u>Workshop secretariat: Speranta Stomff</u>	ASRO (Romanian standards association)

### 3 Workshop objectives and scope

#### 3.1 Background

Due to major natural and anthropogenic disasters, accurate damage assessment is becoming critical due to increasing human and economic losses. Furthermore, fast reaction during crises and in the aftermath following natural disasters, such as earthquakes and tropical storms, is necessary to support the response, rescue, humanitarian, and reconstruction operations in the crisis area. Therefore, rapid damage assessment and disseminating accurate information after a disaster is crucial to effective event management and decision-making.

Past natural disasters have pointed to the significance of a rapid and reliable damage assessment to face short-term emergency response. It is well known that the strength of an earthquake is directly related to the expected damages. At the same time, they are highly dependent on the delay and inadequacy of the rescue and reconstruction intervention. Therefore, a rapid damage assessment is essential for practitioners to make timely and informed decisions following a disaster.

The EU-funded research project STRATEGY <https://strategy-project.eu/> has systematically identified and prioritized gaps in standardization in crisis and disaster management and has compared them to the needs of end-users and available opportunities across a broad spectrum of disaster management activities. All standardization items to be developed in the STRATEGY project will be thoroughly tested and validated in tabletop exercises (TTXs) and full-scale exercises (FSXs).

Various methods for building structures' damage assessment (e.g., EMS-98) already exist at national and international levels. However, these are fundamentally designed for ground-based field assessments and/or satellite-based assessments, posing several challenges and limitations such as the delayed/asynchronous mode of assessment and damage detection, the subjectivity of the interpretation, etc.

#### 3.2 Scope

The planned CEN Workshop Agreement specifies a framework that aims to cover the rapid assessment of damage in buildings and disseminate the related results/alerts to the command-and-control centers of the agencies that manage the emergency. The results of the Workshop will be used by:

- the security officers of the critical infrastructures that will be monitored for damages,
- the officers of the authorities that should be informed about a damaged building to coordinate the response activities and
- the Command & Control system manufacturers and developers.

The accurate and quick assessment of the damage caused to the buildings in an area hit by a disaster (earthquake, tsunami, fire, flood, etc.) is essential for prioritizing the recovery needs and actions. Therefore, we need a formalized way to describe the damages aiming to optimize the efficiency and effectiveness of the public safety agencies. This need is partially related to the operational requirement to share information on disaster damages among a significant number of public services involved in mitigation, response, and recovery activities. The envisaged CWA will be based on methodologies to monitor accurately and quickly the status/damages of the buildings, which are used by the safety agencies and the security officers of infrastructures following a disaster. Guidelines and protocols will be developed, defining in detail the process of rapidly identifying and characterizing the structural damages following a disastrous event and formalizing how the information on the damage can be commonly shared.

#### 3.3 Related activities

The purpose of the planned CWA is not, at the present stage, the development of a standard. In addition, there are relevant standards, other technical specifications, and committees dealing with related topics, e.g.:

List of related standardization Technical Bodies:

- CEN/TC 391 Societal and Citizen Security
- CEN Security Sector Forum
- ISO/TC 292 Security and resilience

List of related standards and standardization documents:

- ITU-T X.1303 bis, Common alerting protocol (CAP 1.2)
- ISO/TR 22351, Societal security — Emergency management — Message structure for exchange of information
- CWA 15931-1, Disaster and emergency management - Shared situation awareness - Part 1: Message structure

The envisaged CWA will consider and extend their work -and for this reason- a consistent technical interaction will be established through the Strategy's Liaison to the TC 391.

The EU-funded research project STRATEGY had asked and was granted the project liaison status in Technical Committee CEN/TC 391.

## **4 Workshop programme**

### **4.1 General**

The Workshop is expected to publish one single CWA, which will establish a methodology that will cover the rapid damage assessment of buildings and disseminate the related results/alerts to the command-and-control centers of the safety agencies. The CWA will be drafted and published in English.

Due to the travel restrictions related to COVID-19, all meetings are intended to be virtual and physical meetings, according to the possibilities. However, in all cases, when a physical meeting is set up, the possibility of virtual participation will be granted as well.

The program to reach the CEN Workshop Agreements entails the following steps:

The kick-off meeting is planned to take place on 22.03.2022 by teleconference. After that, a draft of the Project Plan for public commenting will be published for 30 days. After that, a total of at least three Workshop meetings (kick-off meeting and Workshop meetings) and web conferences will be held, during which the content of the CWA(s) will be presented, discussed, and approved. The CWA will be drawn up in English (language of meetings, minutes, etc.). The CWA will be written in English.

### **4.2 Workshop schedule**

The following project schedule is for orientation only and will be modified as the Workshop progresses.

**Table 1: Workshop schedule (preliminary)**

CEN/CENELEC Workshop	Nov 21	Dec 21	Jan 22	Feb 22	Mar 22	Apr 22	May 22	Jun 22	Jul 22	Aug 22	Sep 22	Oct 22	Nov 22	Dec 22	Jan 23	Feb 23	Mar 23	Apr 23	May 23	Jun 23	Jul 23	Aug 23
<b>Initiation</b>																						
1. Proposal form submission and TC response																						
2. Project plan development																						
3. Open commenting period on draft project plan (mandatory)																						
<b>Operation</b>																						
4. Kick-off meeting																						
5. Development of 1st draft of CWA																						
6. Table-Top Exercise																						
7. Development of Second Draft of CWA																						
8. FSX																						
9. Public Enquiry																						
10. Comments from TC and WS participants																						
11. Final Draft of CWA																						
<b>Publication</b>																						
12. CWA(s) publication																						
<u>Dissemination (see 7)</u>																						
<b>Milestones</b>					K					TT X												P

- K** Kick-off
- TTX** Tabletop Exercise
- FSX** Full-Scale Exercise
- P** Publication of CWA

In the context of the STRATEGY project, each CWA is planned to be elaborated and evaluated in cooperation with end-users through two types of exercises, one TTX and one FSX exercise. TTX is a tabletop exercise (usually discussion-based), where the end-users provide feedback and evaluate the impact of the CWA development on their operational tasks making decisions according to a predefined scenario. FSX is a full-scale exercise implemented in the field. The end-users/stakeholders evaluate the use of the CWA proposals in realistic scenarios and real operational conditions. The purpose of these two exercises is to test and evaluate the proposed CWA's content. The feedback that will be received will be integrated into the CWA

## 5 Resource planning

ASRO will provide the Workshop Secretariat, subject to formal approval of the Project Plan at the kick-off meeting.

The Workshop will be financed within the framework of the EU-funded research project STRATEGY (Facilitating EU pre-Standardisation process Through streamlining and vAlidating inTeroperability in systems and procEdures involved in the crisis management cYcle). This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 883520.

All costs related to the participation of interested parties in the Workshop's activities have to be borne by themselves. The copyright of the final CEN Workshop Agreement will be at CEN. In addition, the final document will include the following paragraph: "Results incorporated in this CEN Workshop Agreement received funding from the European Union's HORIZON 2020 research and innovation programme under grant agreement number 883520 (STRATEGY)".

Registration and participation at the CEN Workshop described here are free of charge.

All costs related to the participation of interested parties in the Workshop's activities have to be borne by themselves.

## 6 Workshop structure and rules of cooperation

### 6.1 Participation in the Workshop

The Workshop will be constituted during the kick-off meeting. By approving the project plan presented here, the interested parties declare their willingness to participate and formally named Workshop participants, with the associated rights and duties. Participants at the kick-off meeting who do not approve the project plan are not given the status of a Workshop participant and are thus excluded from other decisions made during the kick-off meeting and any further decisions regarding the Workshop.

Any new participant in the Workshop at a later date is decided on by the participants making up the Workshop at that time.

All Workshop participants who voted for the publication of the CWA or its draft will be named authors in the European Foreword, including the organizations they represent. Conversely, all Workshop participants who voted against the publication of the CWA or who have abstained will not be named in the European Foreword.

### 6.2 Workshop responsibilities

The Workshop Chair is responsible for content management and decision-making and voting procedures. The Workshop Chair is supported by the Workshop Vice-Chair and the responsible Workshop secretariat, whereby the Workshop secretariat will always remain neutral regarding the content of the CWA(s). Furthermore, the Workshop secretariat shall ensure that CEN-CENELEC's rules of procedure, rules of presentation, and the principles governing the publication of CWA(s) have been observed. Should a Workshop Chair no longer carry out her/his duties, the Workshop secretariat shall initiate the election of a new Workshop Chair. The list below covers the main tasks of the Workshop Chair. It is not intended to be exhaustive.

- Content related contact point for the Workshop
- Presides at Workshop meetings
- Ensures that the development of the CWA respects the principles and content of the adopted project plan



- Manages the consensus-building process, decides when the Workshop participants have reached an agreement on the final CWA based on the comments received
- Ensures due information exchange with the Workshop secretariat
- Represents the Workshop and its results to exterior

The Workshop secretariat, provided by ASRO, is responsible for organizing and leading the kick-off meeting with the Workshop proposer. In addition, the Workshop secretariat shall schedule further Workshop meetings and/or web conferences in consultation with the Workshop Chair. The list below covers the main tasks of the Workshop secretariat. It is not intended to be exhaustive.

- Administrative and organizational contact point for the Workshop
- Ensures that the development of the CWA respects the principles and content of the adopted project plan and the requirements of the CEN-CENELEC Guide 29
- Formally registers Workshop participants and maintains a record of participating organizations and individuals
- Offers infrastructure and manage documents and their distribution through an electronic platform
- Prepares agenda and distribute information on meetings and meeting minutes as well as follow-up actions of the Workshop
- Initiates and manage CWA approval process upon decision by the Workshop Chair
- Interface with CEN-CENELEC Management Centre (CCMC) and Workshop Chair regarding strategic directions, problems arising, and external relationships
- Advises on CEN-CENELEC rules and bring any significant difficulties encountered (if any) in the development of the CWA to the attention of CEN-CENELEC Management Centre (CCMC)
- Administrates the connection with relevant CEN or CENELEC/TCs

### 6.3 Decision making process

Each workshop participant is entitled to vote and has one vote. If an organization sends several experts to the Workshop, it has only one vote, regardless of how many Workshop participants it sends. Transferring voting rights to other Workshop participants is not permitted. A simple majority passes decisions; abstentions do not count.

If Workshop participants cannot be present in the meetings when the CWA or its draft is adopted, an alternative means of including them in the voting procedure shall be used.

## 7 Dissemination and participation strategy

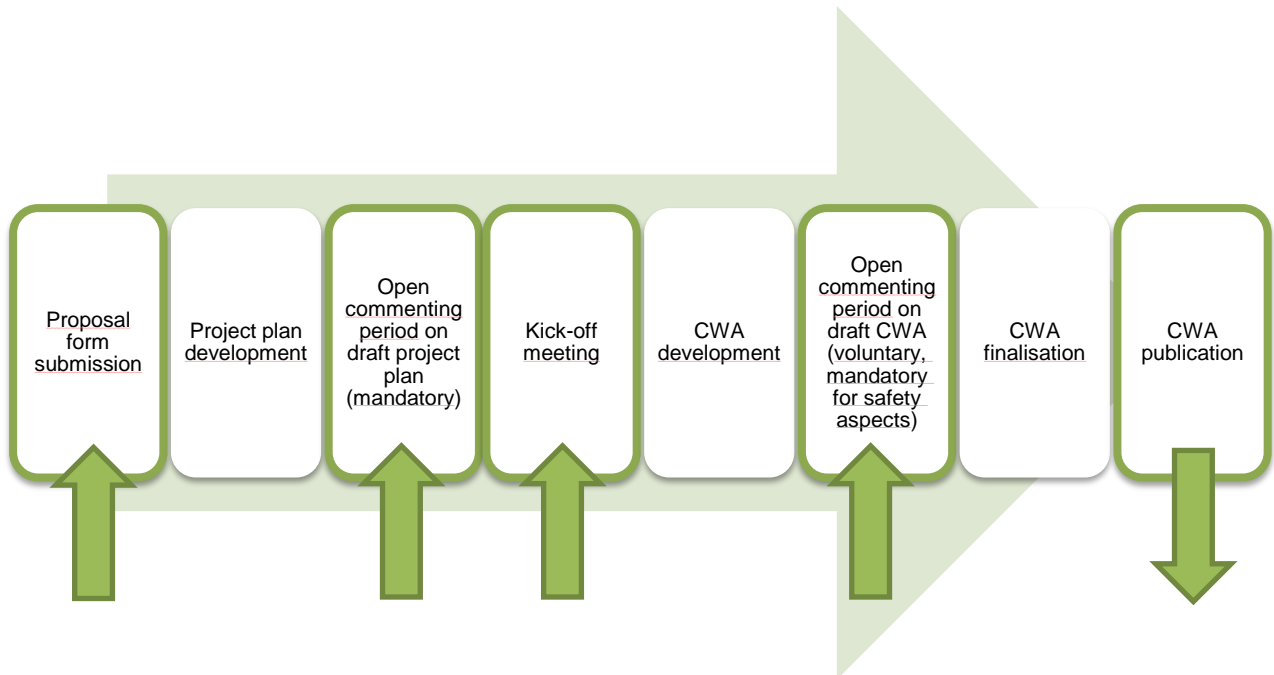
The Workshop proposal was disseminated to the following relevant stakeholders and bodies for consultation:

- CEN/TC 391, ‘Societal and Citizen Security.’

The project plan will be disseminated to the following relevant stakeholders and bodies for commenting:

- CEN/TC 391, ‘Societal and Citizen Security.’

In addition to the CCMC website, the project plan and the date of the kick-off meeting will be advertised on the website of STRATEGY project: <https://strategy-project.eu>, ASRO webpage, ELOT webpage to raise awareness. In addition, the final CWA will be advertised on social media such as LinkedIn and Twitter. Interested parties are requested to contribute by commenting on the project plan (short-term) or workshop participation (long-term).



### Proposal form submission

The Workshop proposal will be disseminated to the following relevant stakeholders and bodies for consultation:

- CEN/TC 391, 'Societal and Citizen Security.'
- CEN Security Sector Forum

### Open commenting period on the draft project plan

The project plan will be disseminated to the following relevant stakeholders and bodies for commenting:

- CEN/TC 391, 'Societal and Citizen Security.'
- CEN Security Sector Forum

In addition to the CCMC website, the project plan and the date of the kick-off meeting will be advertised on the website of STRATEGY project: <https://strategy-project.eu> to raise awareness well as the site of ASRO (<https://www.asro.ro>) and ELOT (<http://www.elot.gr/>).

Interested parties are requested to contribute either by commenting on the project plan (short term) or workshop participation (long-term).

### Open commenting period on draft CWA

The draft CWA will be disseminated to the following relevant stakeholders and bodies for commenting:

- CEN/TC 391, 'Societal and Citizen Security.'

- CEN Security Sector Forum

In addition to the CCMC website, the draft CWA will be advertised on the website of the STRATEGY project: <https://strategy-project.eu> to raise awareness. Furthermore, interested parties can contribute by commenting on the draft CWA (short-term).

### **CWA publication**

The final CWA will be disseminated to the following relevant stakeholders and bodies:

- CEN/TC 391, ‘Societal and Citizen Security.’
- CEN Security Sector Forum

In addition to the CCMC website, the final CWA will be advertised on:

- website of STRATEGY project
- website of ASRO

## **8 Contacts**

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- Workshop proposer

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