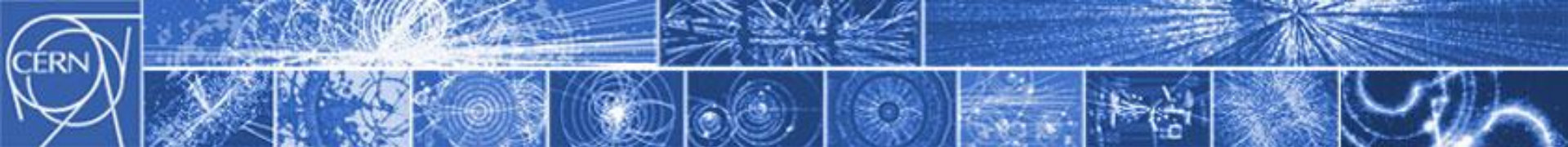


Adverse events Workshop

Creating a common understanding on Adverse events information requirements

Adverse Event Management from the HSE perspective

E. Cennini / DGS-SEE

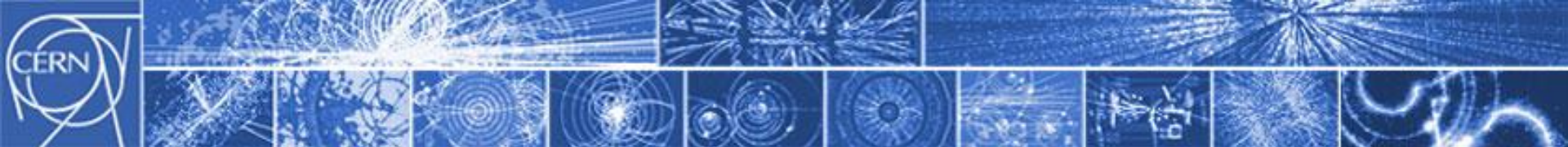


HSE UNIT - SCOPE OF WORK

- I. In its role as the Organization's centre of dedicated competence for Safety matters and in consultation with the Departments and other relevant CERN services, the HSE Unit assists the Organization in defining and monitoring the implementation of its Safety Policy, through:
 - assistance in the definition and achievement of Safety objectives at all levels of the Organization;
 - advice and relevant expert support on Safety risk assessment, risk reduction and risk control;
 - proposals for Safety improvements based, inter alia, on lessons learnt and best practices;
 - training, information and awareness-raising in Safety matters;
 - assistance in the implementation of CERN's regulatory framework in matters of Safety.

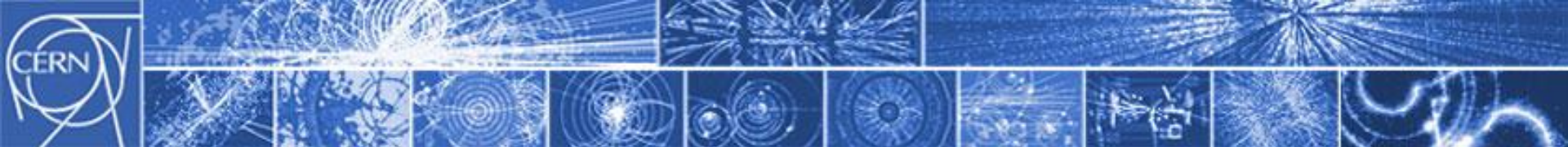
- II. The HSE Unit supports the Organization's proactive communication in matters of Safety by:
 - initiating and contributing to corporate internal communication;
 - assisting CERN's services in charge of external communications and relations with the Host States;
 - establishing and publishing periodic reports on the Organization's Safety performance, in particular concerning radiation protection and environmental protection.

- III. The HSE Unit as the Organization's control body in matters of Safety monitors the compliance of CERN's activities with its Safety Policy through targeted audits and reviews on:
 - the accomplishment of objectives and the implementation of rules and best practices;
 - the Organization's Safety performance.

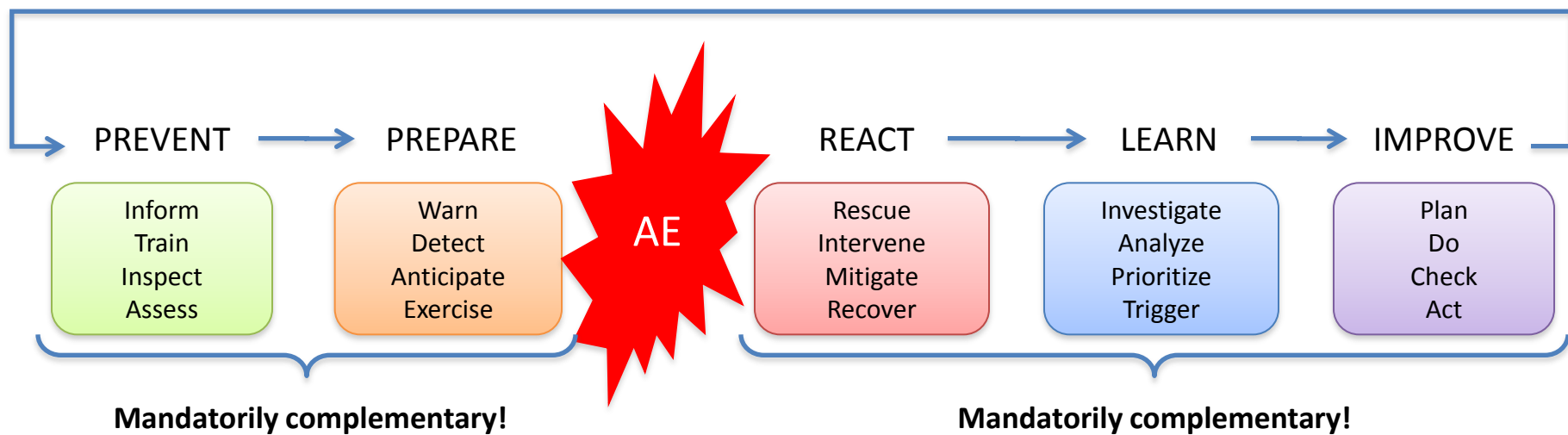


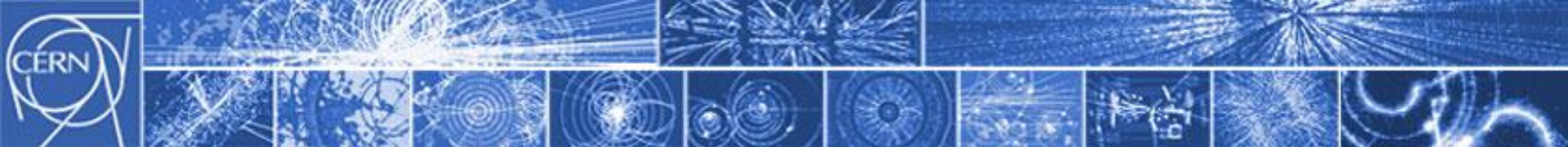
HSE UNIT - SCOPE OF WORK (cont)

- IV. The HSE Unit provides Safety clearance for activities, special equipment, installations, experiments and projects with major Safety implications prior to design, operation or dismantling activities. The Head of the HSE Unit may decide to refer clearance decisions to the discretion of the Director-General.
- V. The HSE Unit assists the Director-General concerning collaboration with the Host States in matters of Safety and coordinates CERN's implementation of agreements signed with them in this field.
- VI. The HSE Unit establishes and maintains CERN's regulatory framework in matters of Safety by:
- maintaining a watching brief on the evolution of rules, emerging trends and best practices in Safety matters outside the Organization;
 - identifying Safety rules and best practices relevant to CERN's activities;
 - editing new rules or updating existing ones as necessary for the proper functioning of the Organization on the basis of Host State regulations, European Directives, international standards and best practices;
 - ensuring accessibility of all documents relevant to the CERN regulatory framework in matters of Safety.
- VII. The HSE Unit provides the personnel dosimetry service for the Organization and ensures the management and handling of radioactive sources and waste.
- VIII. The HSE Unit collaborates with the Medical Service, which is responsible for the Organization's occupational medicine, in matters relating to occupational health and safety



ADVERSE EVENT MANAGEMENT PROCESS





HSE IN THE AE PROCESS



SEE-Group - Safety training and awareness

SEE-Group - Accident/incident prevention and follow up

SEE-Group - Technical safety inspections

SEE-Group - Prevention & Safety engineering support

SEE-Group – Project/experiment Safety support

SEE-Group - Safety in contracts

SEE-Group - Safety computing support

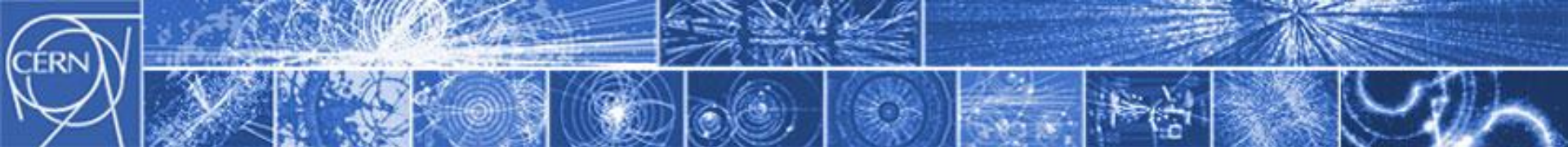
SEE-Group - Safety conformities review

SEE-Group - Safety regulatory framework

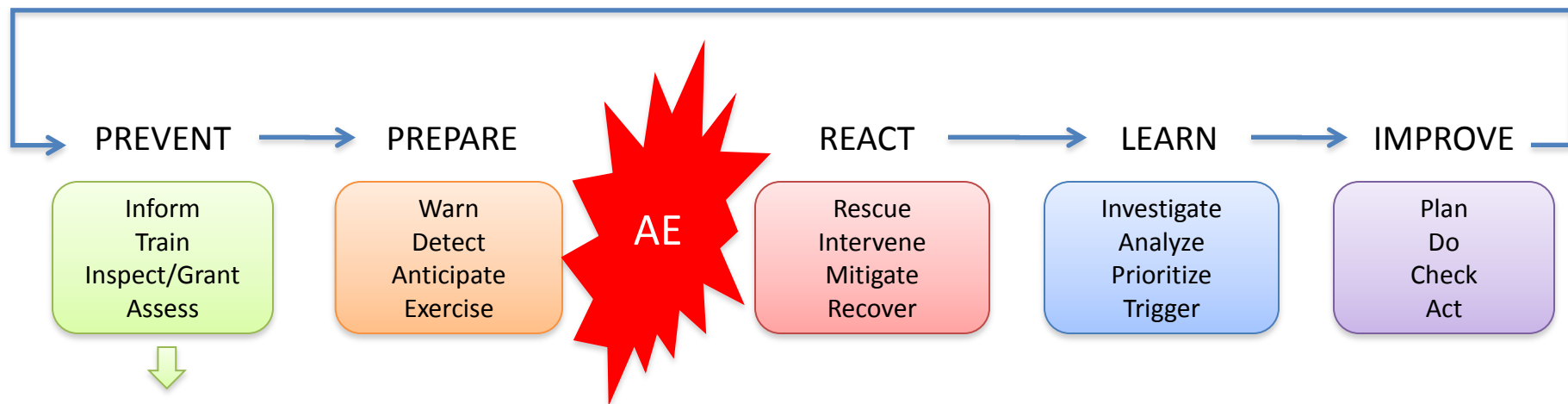
SEE-Group - Environmental protection

Radiation Protection Group





DGS-SEE MAIN NEEDS WRT AE PROCESS



Technical safety inspections

- To provide safety inspections for buildings and for mechanical (pressure, lifting equipment, machine tools and safety valves) and electrical equipment
- To prioritize and trigger the appropriate actions aiming to improve prevention and remove hazardous situations



Challenges:

- Quantity/Type of periodic inspections
- Identification and availability of the stakeholders
- Respect of the tight planning

Challenges:

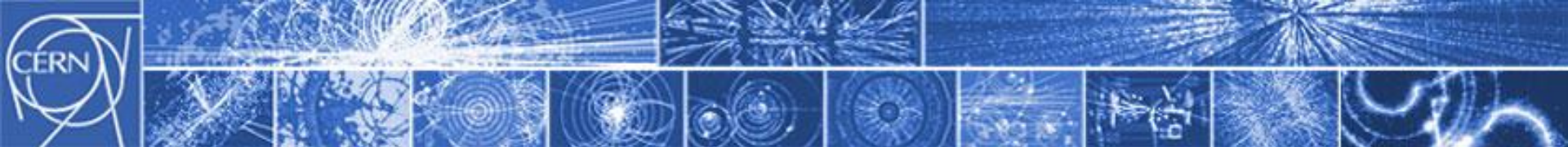
- Quantity of periodic inspections report to write (incl. contractors)
- Notification of the priorities (immediate, short/medium term)
- Logging for follow up and memory

Challenges:

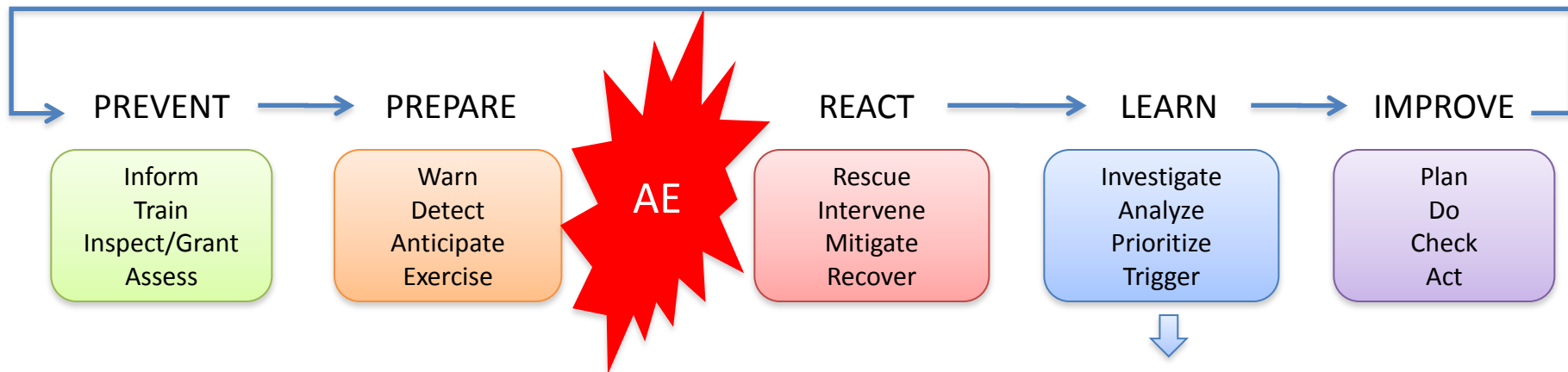
- Targeting the relevant stakeholders
- Informing the relevant shareholders
- Notifying efficiently the relevant actions

Challenges:

- Reporting, statistics, trends
- Tailored reporting to the different inspection types
- **Improve the Inspection process**



DGS-SEE MAIN NEEDS WRT AE PROCESS

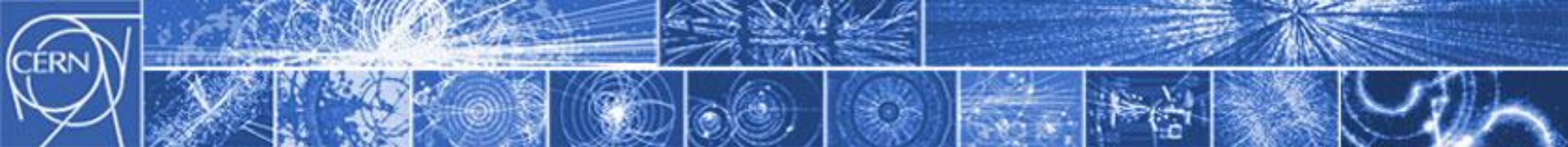


Challenges:

- Immediate corrective measure implementation
- Avoid repetition of the adverse event
- Detect and stimulate declaration of accidents/incidents/near misses.
- Logging and centralization of all actions, documents, decisions, analysis related to each adverse event avoiding duplications.
- Notify asap the stakeholders/shareholders.
- Track/Trace all information/actions/decisions related to an adverse event and share the information with **appropriate confidentiality**

Accident/incident prevention and follow up service:

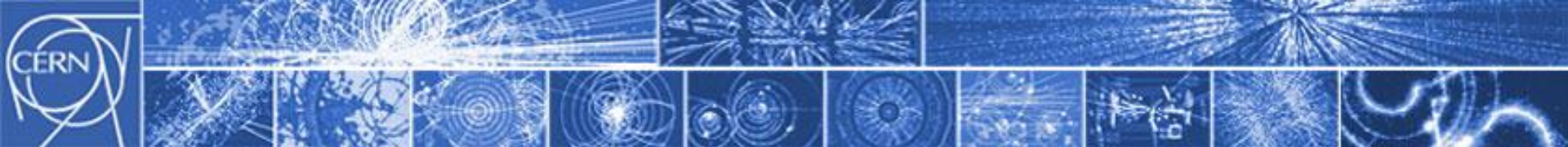
- To log and to follow-up of accidents/incidents/near misses that occur within the CERN domain and to assist the Departments in their analyses.
- To communicate periodically on accidents/incidents/near misses.
- To share lessons learned and to improve safety within the Organization.
- - To establish and publish the CERN annual report on accidents/incidents/near misses.



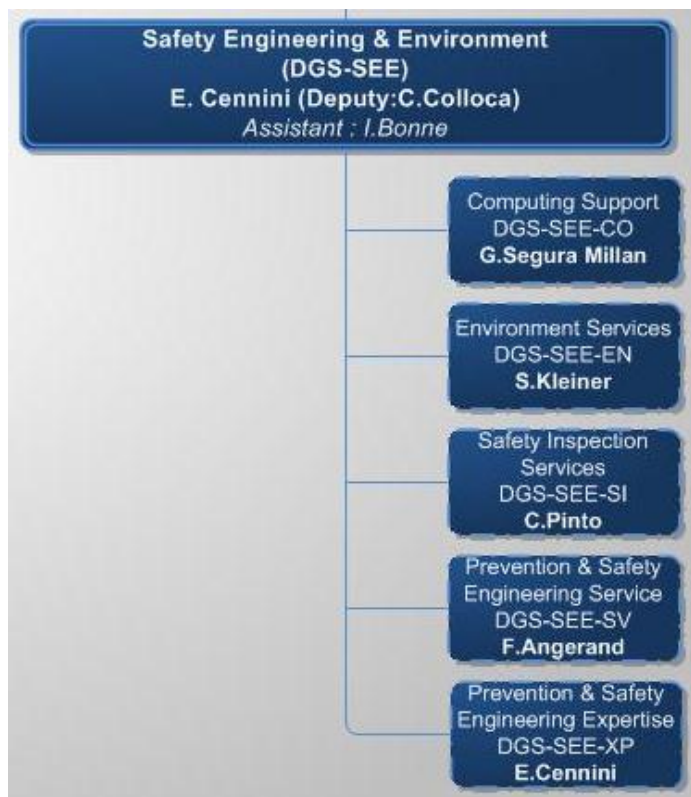
DGS-SEE MAIN NEEDS WRT AE PROCESS

**The Adverse Event process shall feed
and improve all DGS-SEE
services/activities for the Organization**

[Accidents prevention and follow up](#)
[Projects safety support](#)
[Contractual safety support](#)
[Experiments safety support](#)
[Prevention & Safety Engineering support](#)
[Safety training and awareness](#)
[Safety conformities review](#)
[Safety regulatory framework and safety
documentation watch](#)
[Safety systems computing support](#)
[Environmental protection](#)
[Technical Safety inspections.](#)



DGS-SEE SAFETY COMPUTING CONTRIBUTION

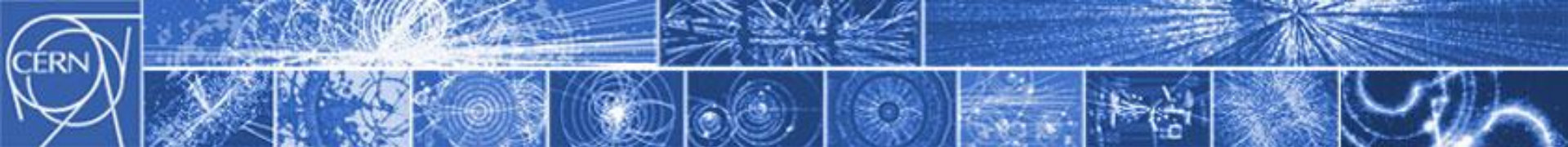


Safety computing support:

- To provide software support to the HSE Unit.
- To develop and support a wide set of specific applications and systems, including monitoring and data acquisition systems such as the Radiation Monitoring System for the Environment and Safety (RAMSES) and the Area Controller System (ARCON).
- To provide software tools and databases supporting the HSE Unit activities.

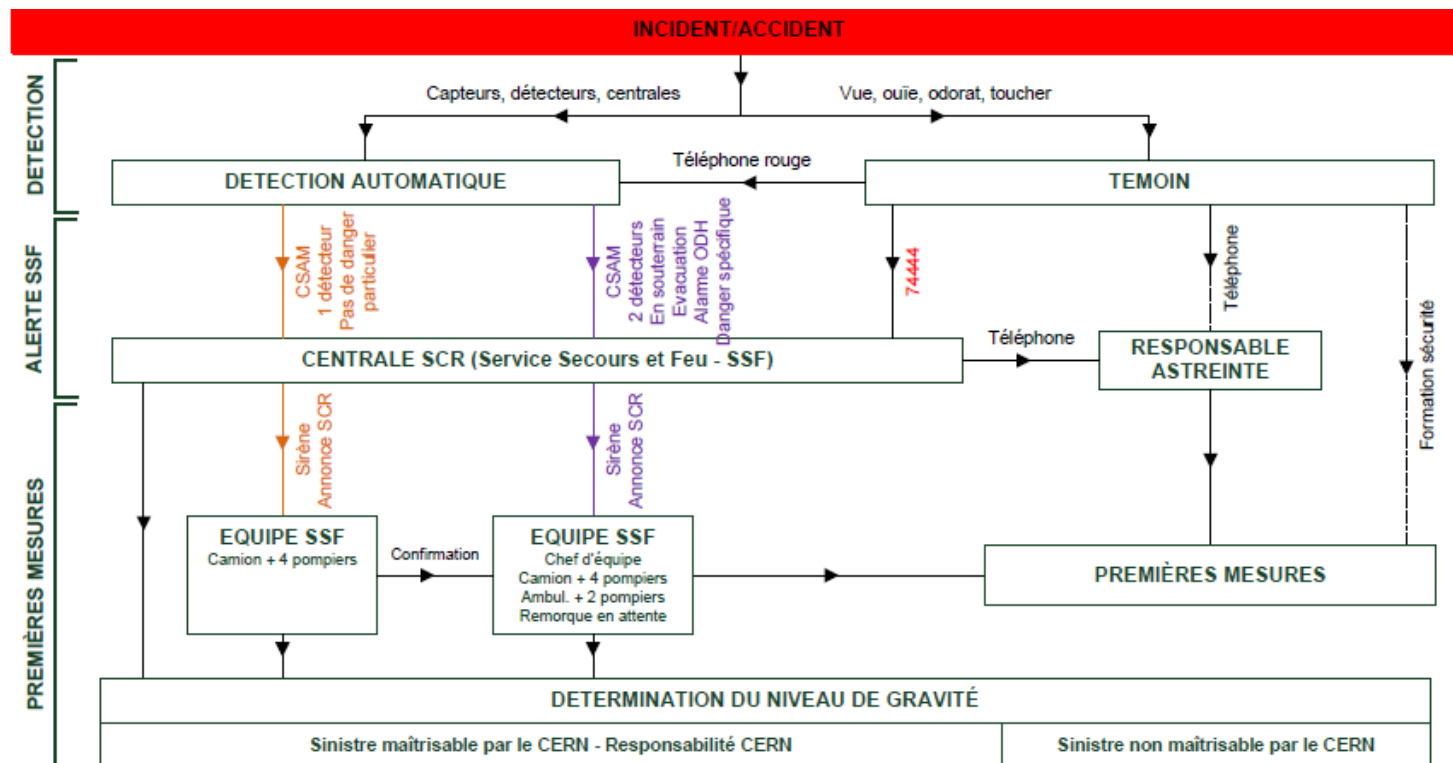
Tools under development (for DGS-SEE services improvement only):

- SAILOR for the Inspections process
- Accident/Incident Management for Adverse event report to the DSOC



Adverse Event Management from the HSE perspective

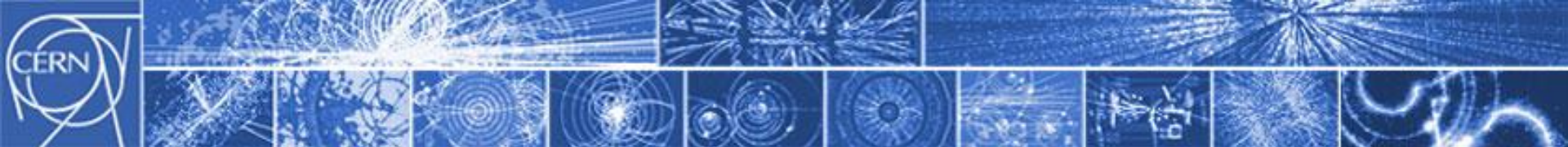
- Considerations -



A computing tool centralizing all adverse event process phases is mandatory for immediate notification and AE management & sharing.

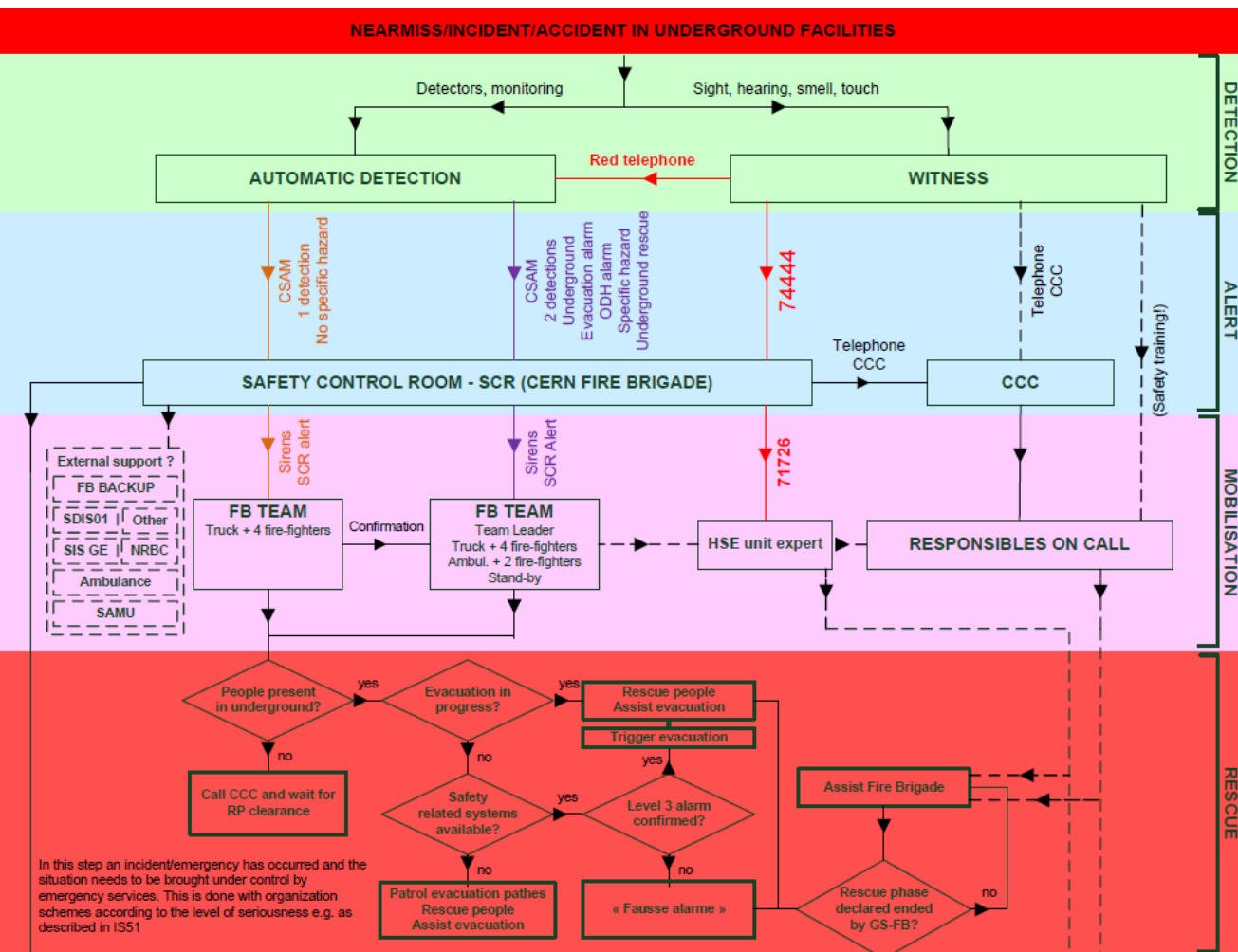
The tool shall gather/point to existing information to avoid creating a "Softwenstein"

Confidentiality is essential



Adverse Event Management from the HSE perspective

- Considerations -



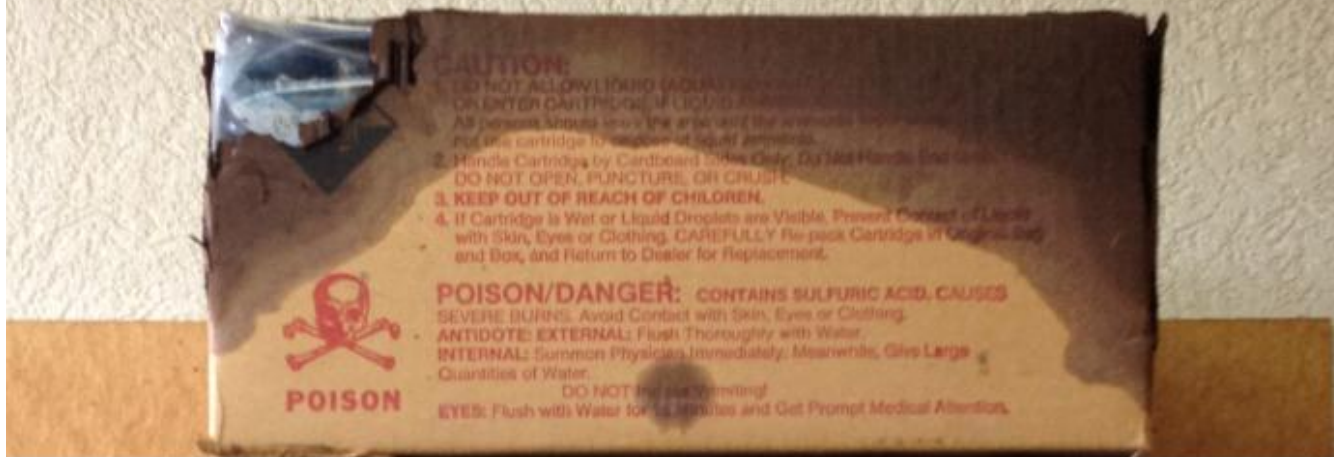
Further exchanges shall be planned to share a common approach and get the buy in of all stake/share holders



Made in CERN

THANK YOU!

Questions/comment?



NE RIEN ENTREPOSER SUR LES ARMOIRES
NO STORAGE ON TOP OF CUPBOARDS