

*Strategies for emergency planning and land use planning for
Seveso sites*

Italy's latest guidelines for external emergency plans, information and exercise *key updates and motivations*

Siracusa (Italy) 1,2,3 October 2025

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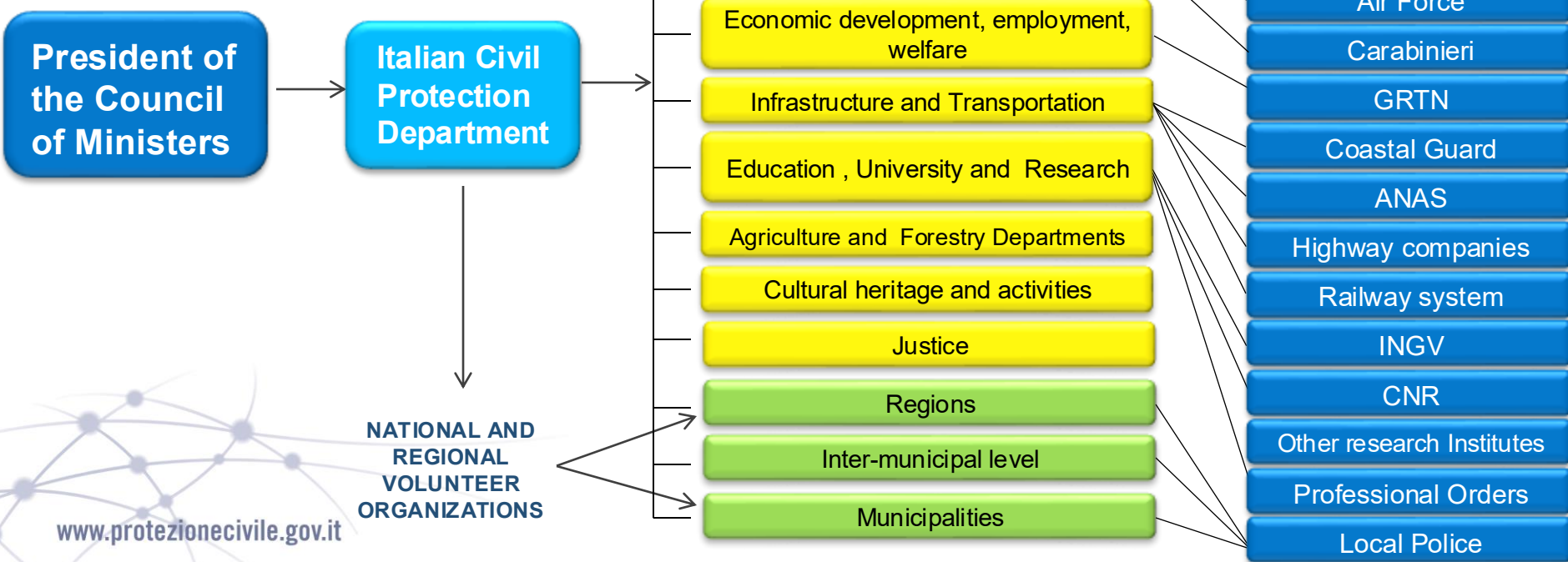


Focus of
presentation

the reasons for the changes
of Italian guideline on Seveso
external emergency planning
and information to the
population

The guidelines for the
preparedness of Seveso sites

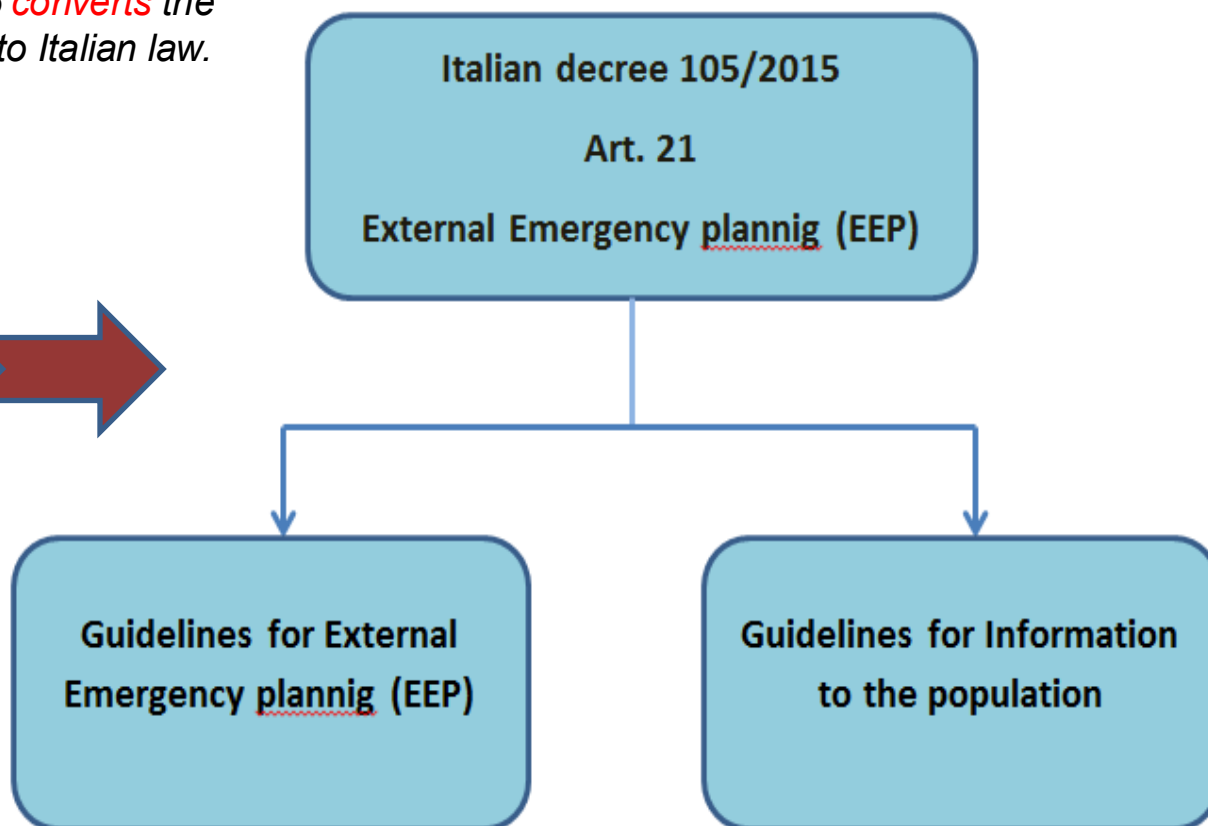
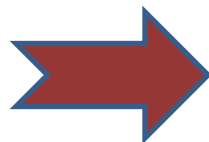
ORGANISATIONAL STRUCTURE OF ITALIAN NATIONAL CIVIL PROTECTION



The role of Civil Protection Department

Decree-Law 105/2015 *converts* the
Seveso III Directive into Italian law.

The role of CPD
is **to establish
the guidelines**
for **EEP** and
information to
the population



The role of Civil Protection Department in Seveso Directive



The role of Civil Protection Department is **to establish the guidelines** for External emergency plan and **information** to the population

...and how ...

National Department of civil protection (as coordinator)

Ministry of the Interior (Department of firefighters, public rescue and civile defense)

Ministry of Environment and Energy Security

Institute for Environmental Protection and Research (ISPRA)

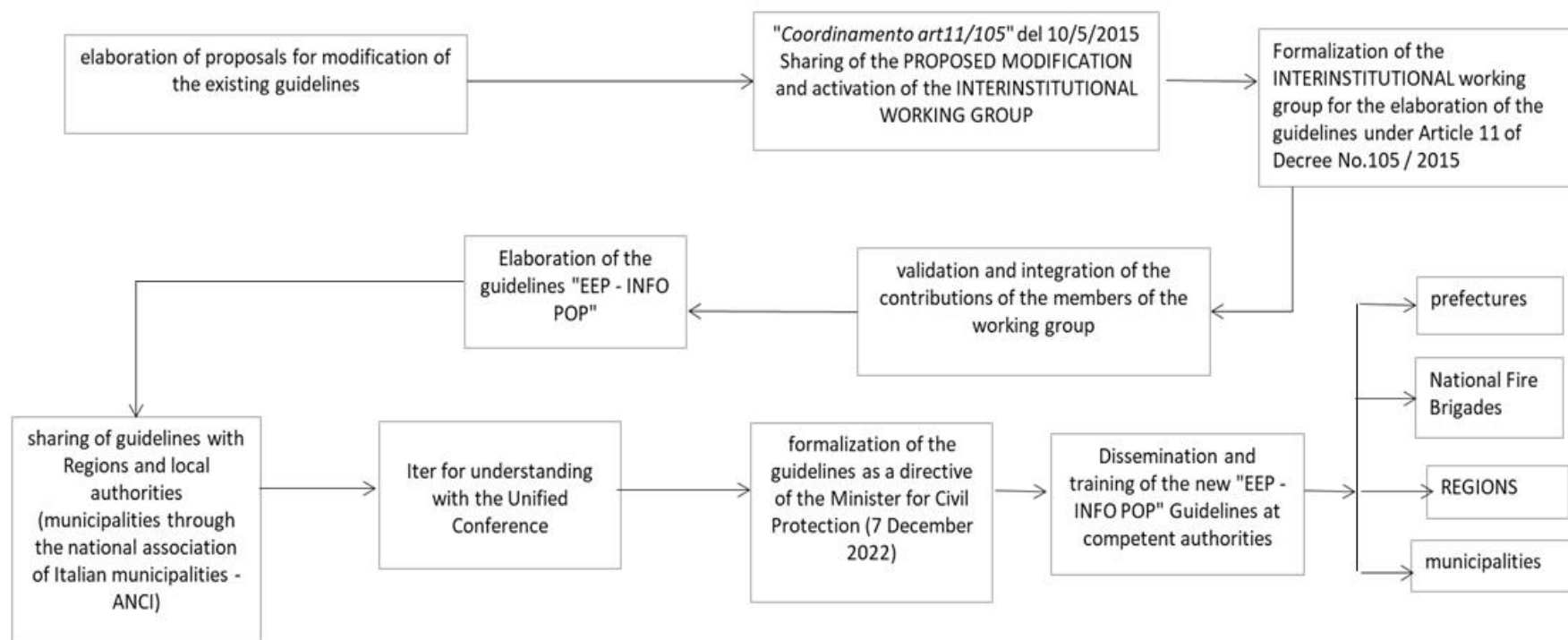
National Institute of Health (ISS)

regional authorities and National association of Italian municipalities (ANCI)

regional agencies for environmental protection (ARPA)

*the guidelines are the final
result of the work of an
inter-institutional group...*

path for the implementation of the guidelines...



....why...

Standardize	Standardize languages and procedures also following the new CLP classification
integration (strategic, tactical and operational levels)	provide a descending plan approach to all subjects involved for the management of the operational, tactical and strategic coordination levels in accordance with CBRN model of intervention
digitization of the plan	structure a plan that can be managed digitally between the various actors (implementation of tools for descending plans)
Self-assessment	provide self-assessment tools for external emergency plans
internal/external interaction	Improve the interaction between the external emergency plan and the local civil protection system
continuous improvement	Structure an approach to the continuous improvement of external emergency plans and information to the public by exercises at various levels of complexity

OUTPUTS...

Part 1 - guidelines for the «external emergency plan»

Part 2 - guidelines for the "information to the public"

Part 3 - guidelines for the «external emergency plan exercises»



...in the next pages some highlights of the new guidelines..

Overview of the main roles in EEP and information to the public..

IS RESPONSIBLE FOR...

Management of establishment



Risk analysis, data sheet for citizens and workers

Prefect



External Emergency Plan/Exercises

Mayor of the Municipality



Information to the public

Prevention/preparedness

Management of establishment



Internal emergency planning, fast communication to the authorities/operative forces (Prefect, fire brigade, health services,)

Prefect



Activation and management of EEP

Mayor of the Municipality



Activation of information to the public, assistance to the population

Emergency

1/2 - Main bullet of changes...

operational management of the damage area with CBRN mode

- advanced coordination post
- technical director of relief
- exclusive fire brigade intervention area
- operations support area

Insertion of operational plans for the various actors involved

- Plan for urgent technical assistance
- Plan for medical rescue and assisted evacuation
- Emergency communication/information plan
- Road plan
- framework of the main actions for the various bodies and structures (in the pre-alarm and emergency alarm phase)

Codifies the effects on the environment of the major accident and the related interventions in the event of an emergency

glossary of terms and technical definitions used in the plan

Insertion of EEP support models

- structured index of the plan
- models for accident reporting
- short-cut method for the assessment of damage areas based on the new CLP classification, etc.

Insertion of criteria for verifying the EEP

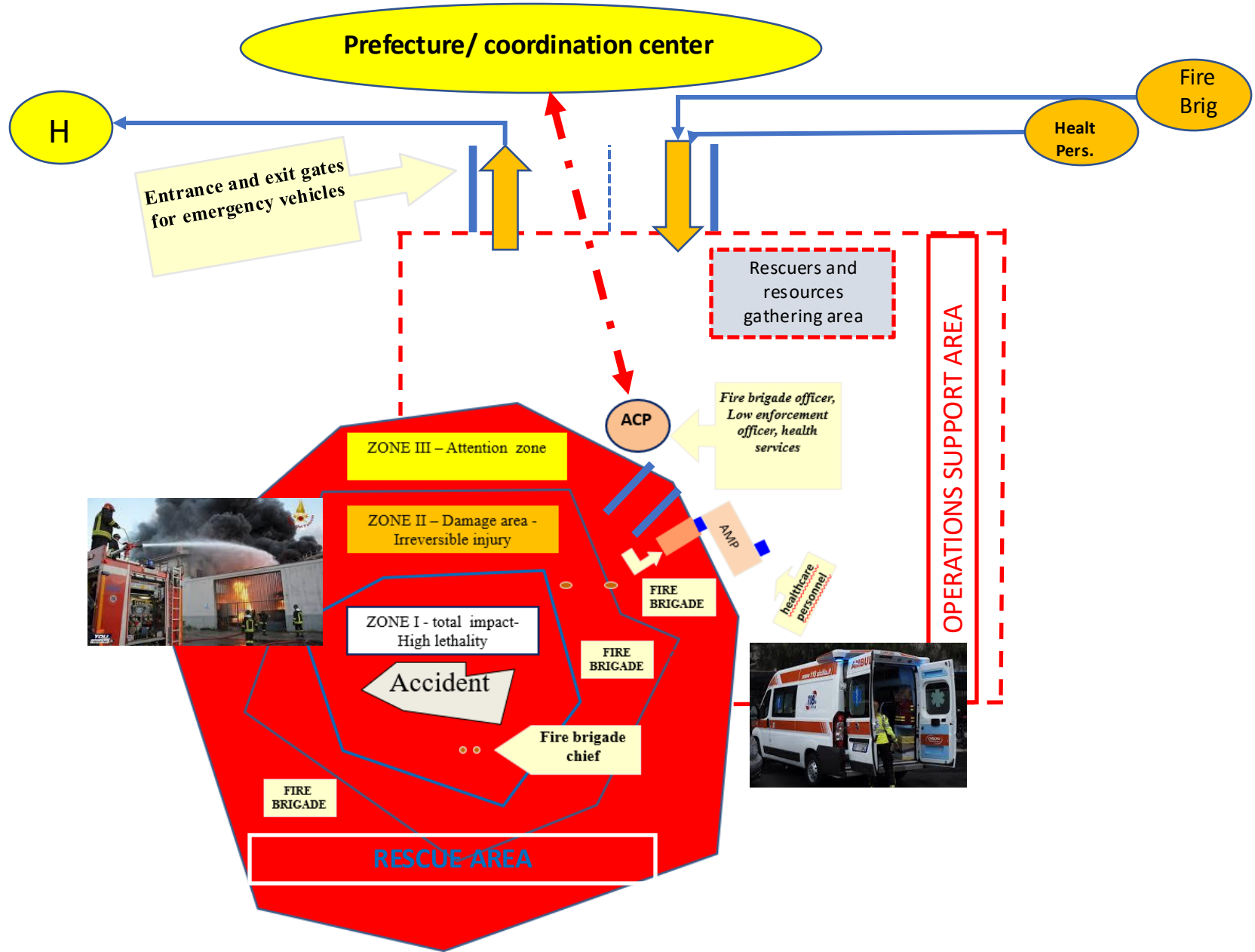
- checklist for evaluating the effectiveness and efficiency of the plan

specific guideline for testing the EEP

Creation of an organic set divided into three parts in a logic of continuous improvement of EEP

- part 1 – external emergency planning (EEP) guidelines
- part 2 - information to the population
- part 3 – testing of external emergency plans

OPERATION MANAGEMENT IN THE MAJOR ACCIDENT AREA



ACP – Advanced Command Post
AMP – Advanced Medical Post



Highlights of the guidelines
for the
"information to the public"

Information to the public

The document aims to provide methodological and operational support to Municipalities for information to the public

PREVENTIVE INFORMATION

INFORMATION DURING AN EMERGENCY

Preventive information

clear and **comprehensible information** on:

- **dangerous substancies**
- **safety measures** (e.g. alarm systems activated in the event of an accident)
- **behavior** to follow (e.g. in case of indoor shelter or evacuation)



are provided to all persons and to any facilities and areas frequented by the public (including schools and hospitals) which may be affected by a major accident occurring in one of the establishments



The publication of information on the **Municipality's website** represents one of the main methods of implementation



recommendations in case of **indoor shelter**



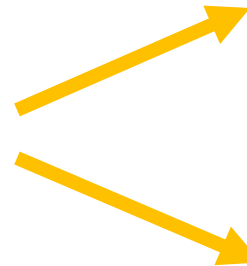
recommendations in case of **evacuation**

information during an emergency

Once the situation has been assessed, the Mayor takes action, in agreement with the Prefect



indications on how to leave and reach the waiting areas, as required by the PEE

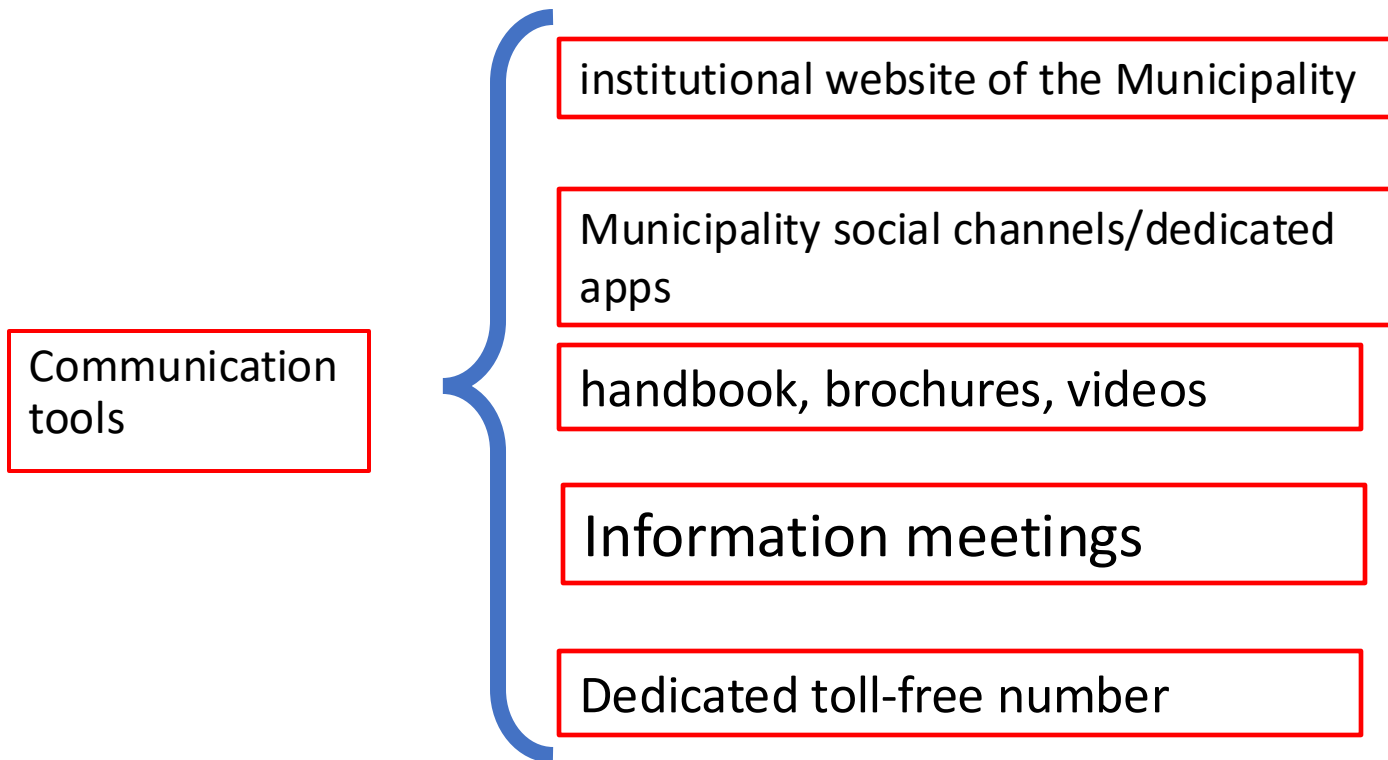


RIFUGIO AL CHIUSO

EVACUAZIONE

THE MAYOR INFORMS CITIZENS FOR THE DURATION OF THE EMERGENCY

Communication tools



Part 3 - guidelines for the «external emergency plan exercises»



GRUPPO DI LAVORO INTERISTITUZIONALE ISTITUITO NELL'AMBITO DEL
COORDINAMENTO NAZIONALE DI CUI ALL'ART. 11 DEL DECRETO LEGISLATIVO
DEL 26 GIUGNO 2015 N.105

**INDIRIZZI PER LA SPERIMENTAZIONE
DEI PIANI DI EMERGENZA ESTERNA
DEGLI STABILIMENTI A RISCHIO DI INCIDENTE RILEVANTE
AI SENSI DELL'ART. 21 DEL D.LGS. 105/2015**



**OBIETTIVI, LIVELLI, MODALITA' ATTUATIVE E DI VERIFICA DEI
RISULTATI DELLE SPERIMENTAZIONI**

Aprile 2018

Topics covered

- definitions
- goals
- types of exercises (A, B, C, D)
- the phases of an exercise
- the coordination group that develops the exercise
- the project document of the exercise
- Debriefing and gap analysis

Some goals



- verification of the actions envisaged by the plan and communication flows;
- the verification and improvement of the operational capabilities of the personnel involved;
- verifying the information to the population

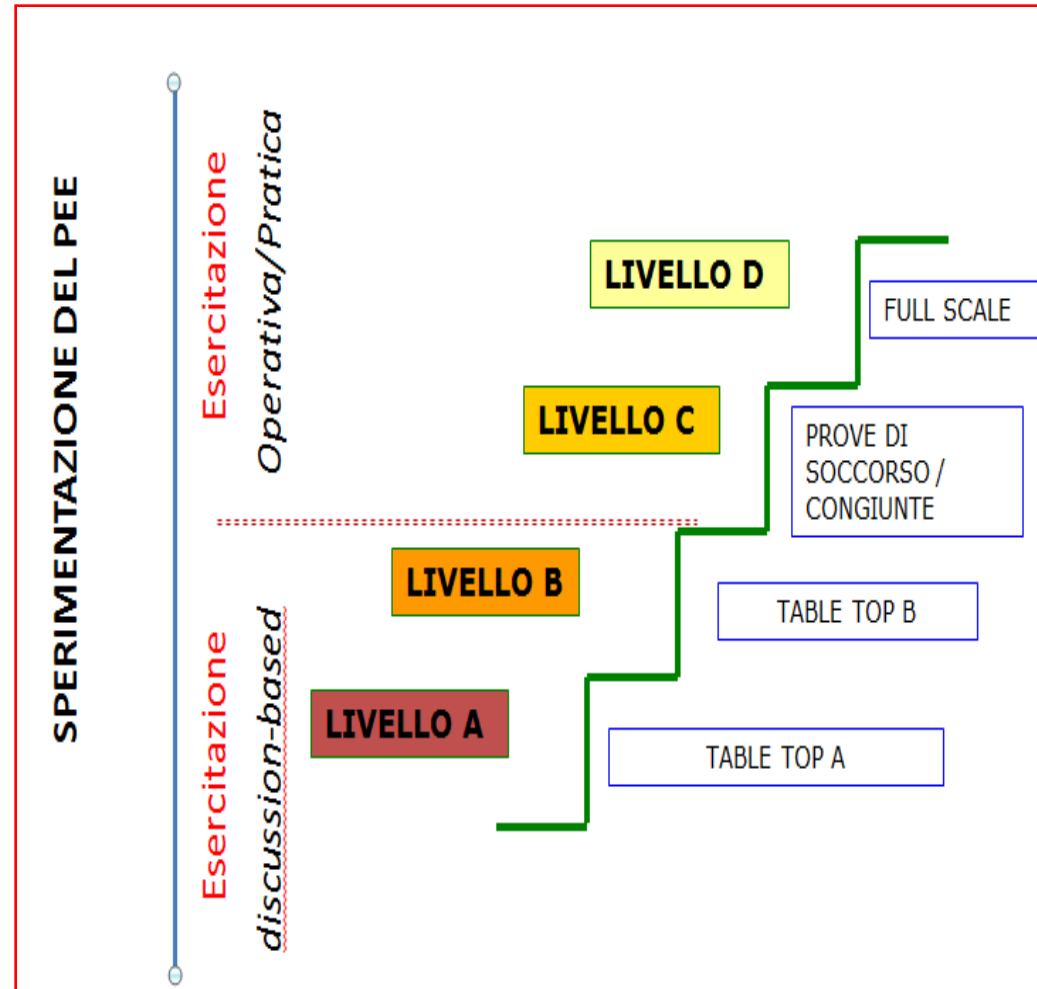
Parte 3: types of exercises

Discussion-based exercises (level A,B):

- are carried out for command posts
- allow you to become familiar with the contents of the EEP and the procedures envisaged
- they can be organized in a short time with limited use of resources

Operations-based exercises (level C, D):

- are carried out through rescue trials, including joint ones (without the involvement of the population) or on a real scale (with the involvement of the public)
- allow the suitability of the actions envisaged by the plans to be assessed





Critical elements to check with an exercise

times and procedures for activating the external emergency plan;

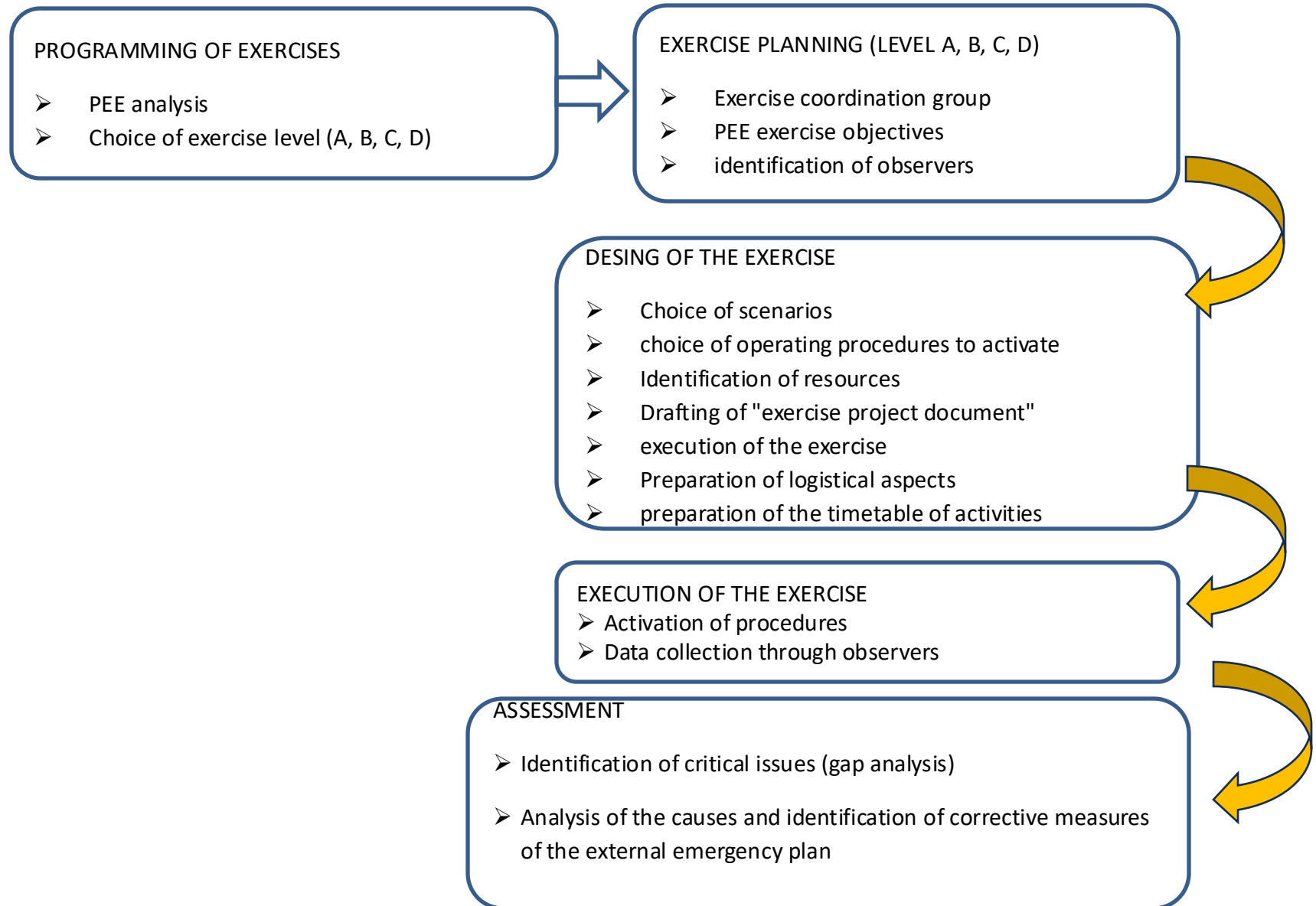
flow of communications between the operating rooms;

activation times of intervention structures and operational centers (ACP, CCS, COC);

intervention times of the various actors involved;

population alert times

development phases of an EEP exercise



Checklist for evaluating the effectiveness and efficiency of the plan

MACROELEMENTS OF THE EXTERNAL EMERGENCY PLAN CHECK LIST

1. TERRITORIAL VULNERABILITY



2. ALARM SYSTEMS

3. INFORMATION TO THE POPULATION

4. OPERATIONAL PROCEDURES



examples of effectiveness and efficiency parameters

TERRITORIAL VULNERABILITY

example of elements of effectiveness (A)

- Census of sensitive centers (homes, schools, hospitals, kindergartens, department stores, offices, stadiums, factories, etc.),
- Accident scenarios List of accident scenarios identified with relative characterization Delimitation of risk areas (areas of certain impact, damage, attention)

example of efficiency elements (B)

- Census of road, railway, port, airport infrastructure and network of essential services (aqueducts, etc.)

A = essential elements for effectiveness

B = significant elements for efficiency

OPERATIONAL PROCEDURES

example of elements of effectiveness (A)

- Identification of bodies and structures for the activation of specific procedures

example of efficiency elements (B)

- Traffic and positioning of gates for the entrance/exit corridors of emergency vehicles from the operations support area

Exercise «Toscochimica» external emergency plan - january 2024

The “Toscochimica SpA” holds numerous chemical substances including hydrofluoric acid and is among the establishments subject to the Seveso III directive.

in January 2024 the external emergency plan was tested in full-scale mode with the new guidelines



"critical elements" tested with the exercise

General aspects



- flow of communications;
- activation of the various actors involved
- Ability to integrate the procedures

scenario

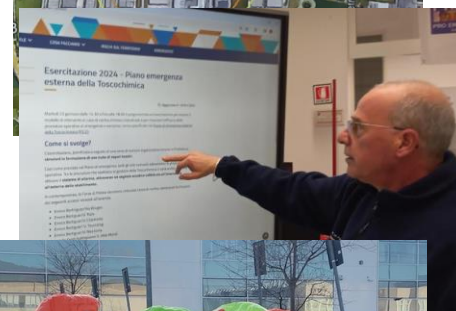


- Ability to the scenario detection
- Ability to evaluate the accident scenario based on real-time conditions (e.g. weather and climatic conditions)

procedures



- relationship between the company's Internal Emergency Plan (PEI) and the PEE;
- operational activity in a CBRN mode
- times and methods of informing the population and for the activation of population protection measures



Thank you for your attention

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