

Twynstra Gudde

Management Consultants

Geo Information for Disaster Management GI4DM

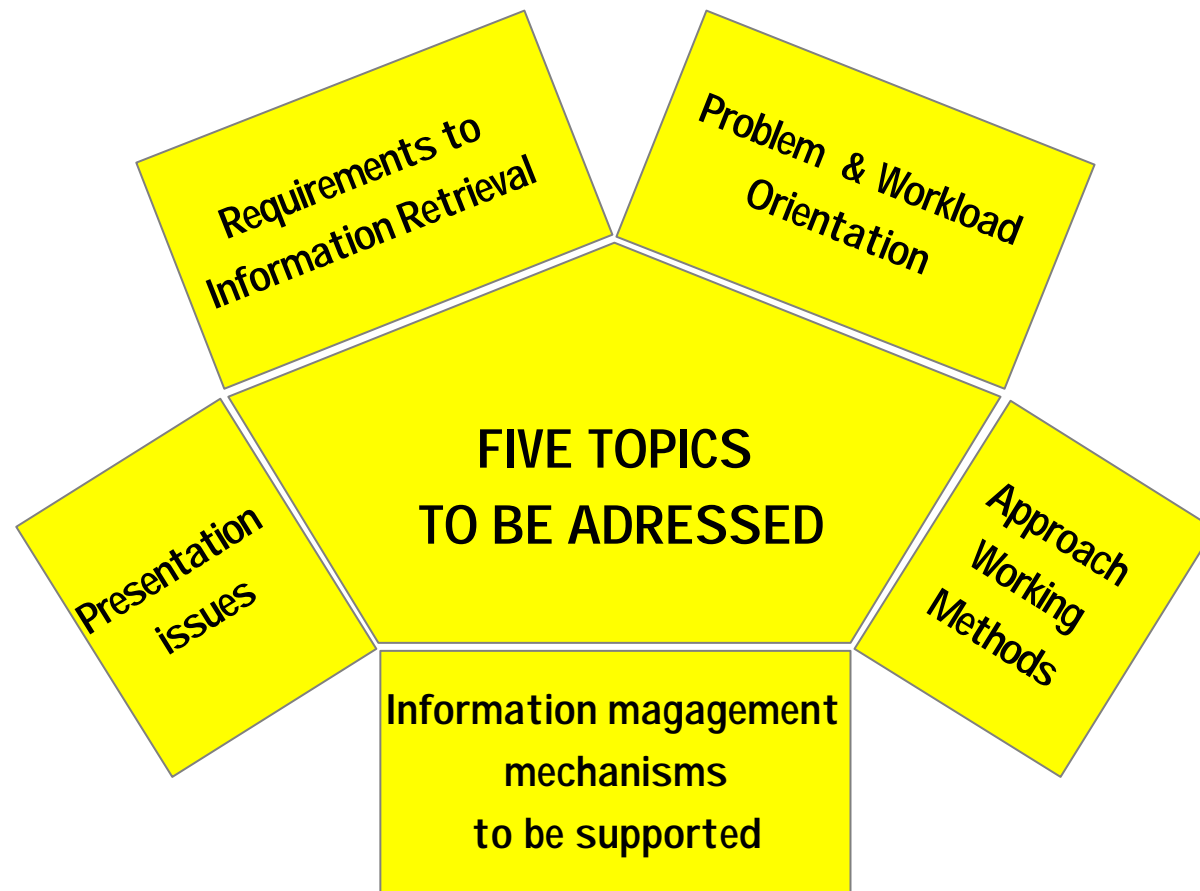


Figures with the full abstract

Ing. Eric J. van Capelleveen RI

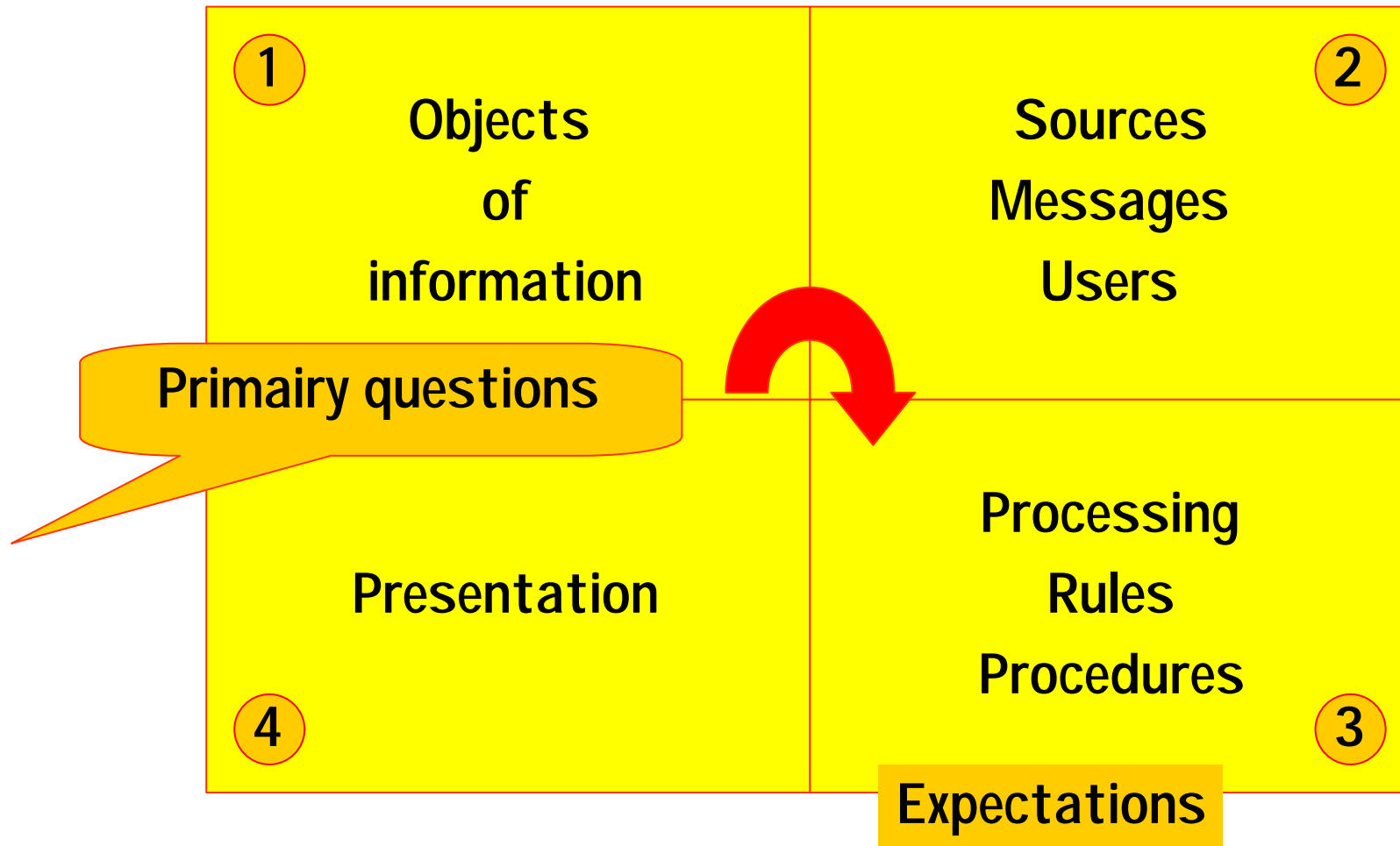
Delft, 22-23 March 2004





Requirements information retrieval

Formulate information demand by



Public Communication

- What is confirmed information?
- Which information can be communicated?
- Do we have reliable information about the situation and effects for the population?
- Where are detailed information to be obtained?
- Which information is already known (media; streets)
- How are you to be informed on developments?
- Which effects are most likely to be dealt with?
- Which behavior advise is to be communicated?

Public Communication



Information 0573-454545

District X

Accommodation
Sports hall

Evacuated

Press Release:

This morning at 10:00 hrs
a big fire raged in the X district

Some asbestos was released

The area has been sealed.

Inhabitants are accommodated.

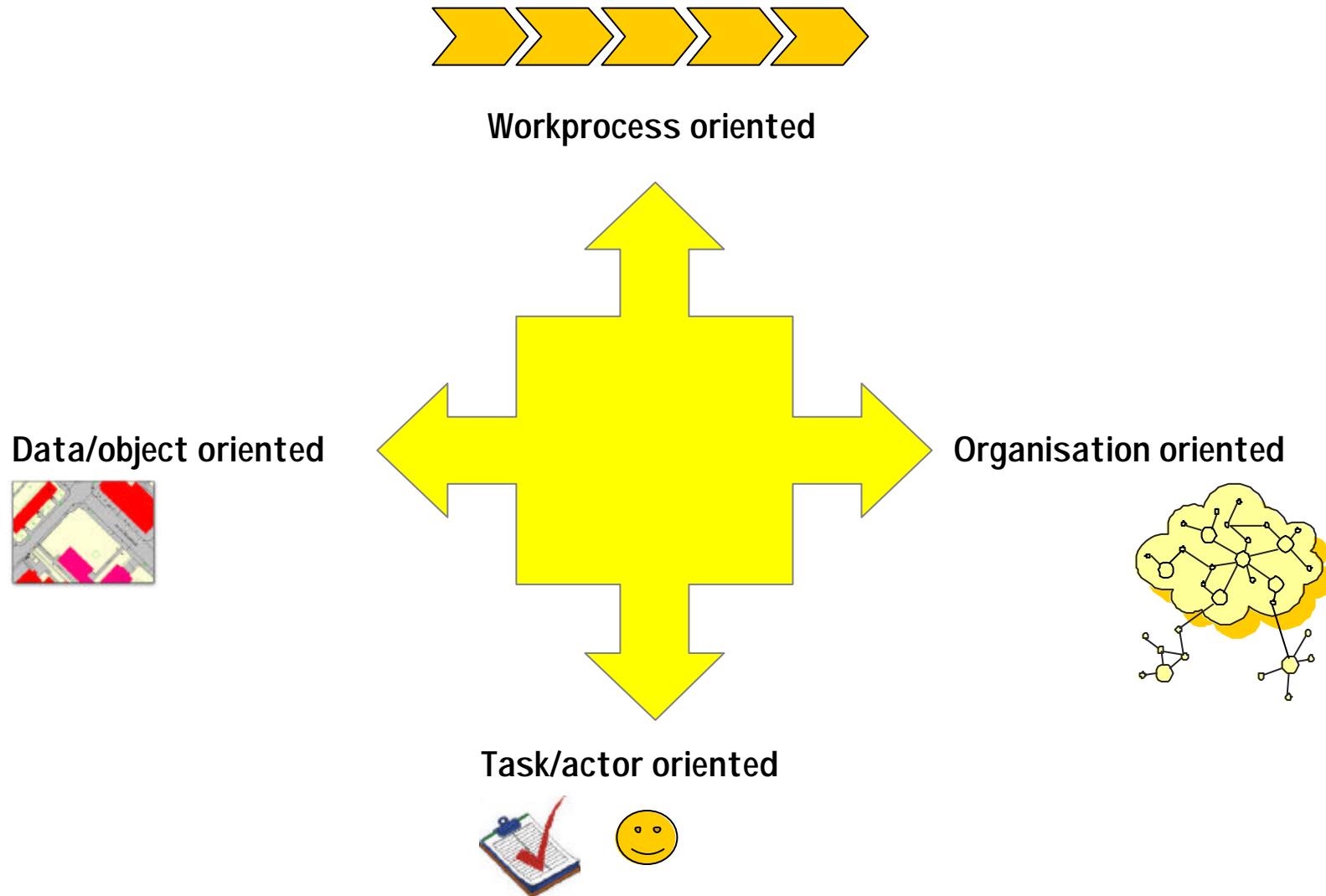
In the nearest sports hall

the Dwingel

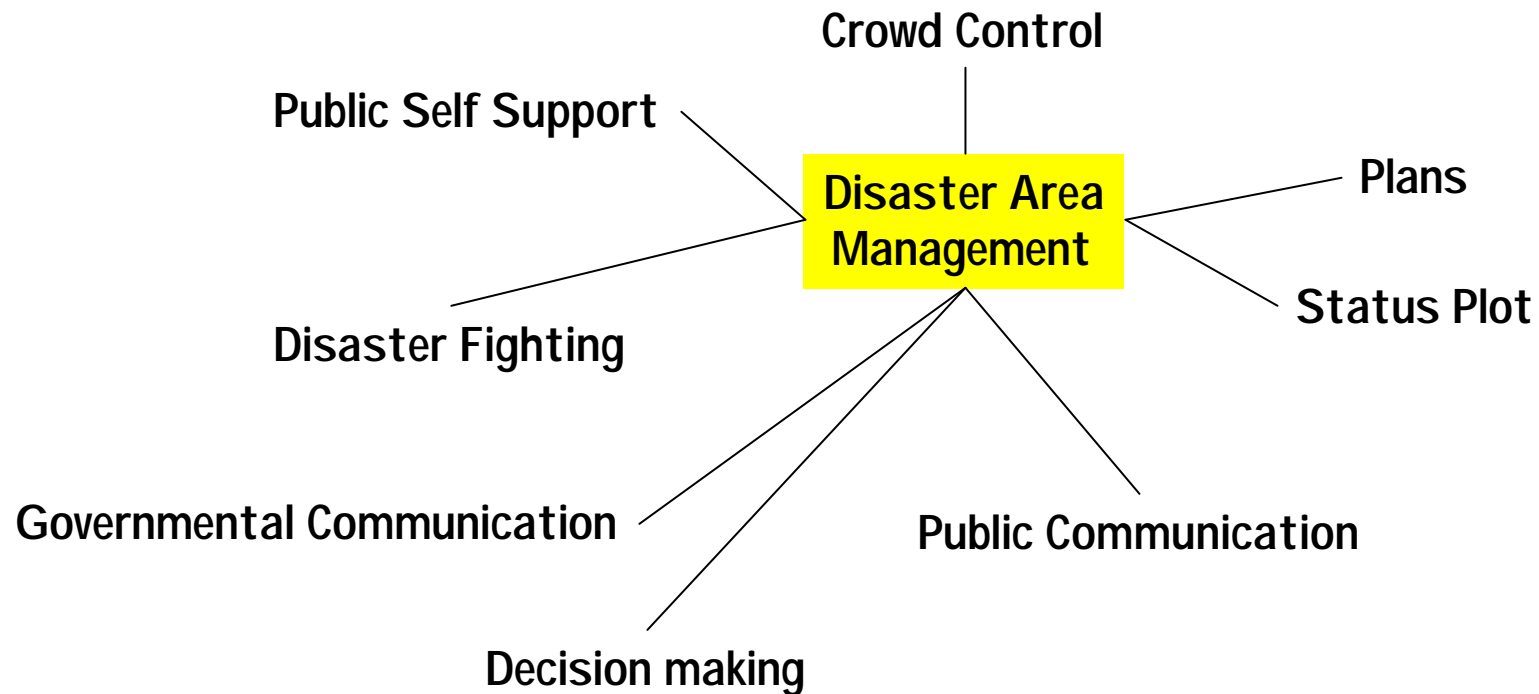
Information can be achieved

at 0573-454545

Viewpoints information retrieval

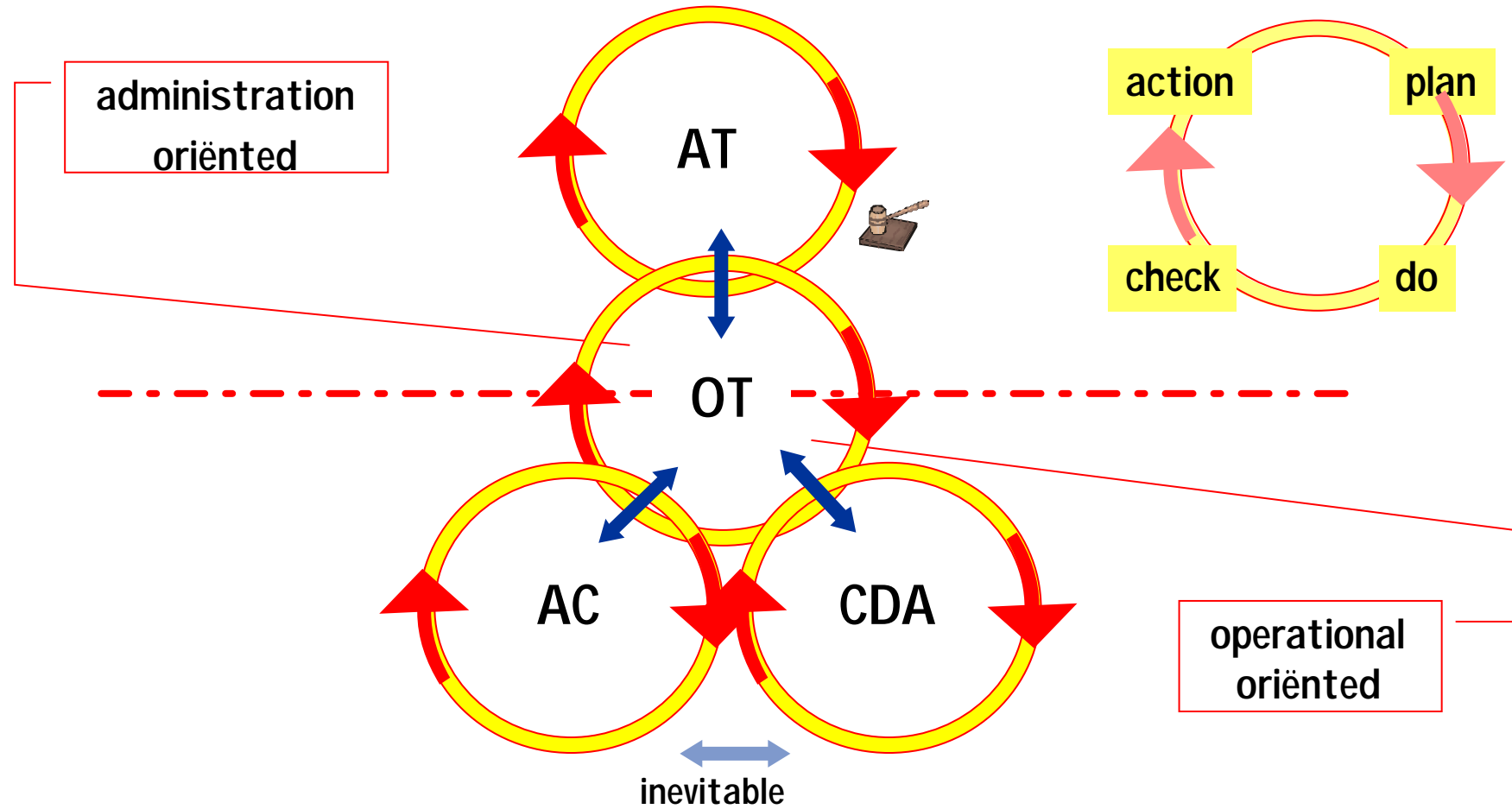


Ontology based menus



Information Management mechanisms to be supported

Managing information

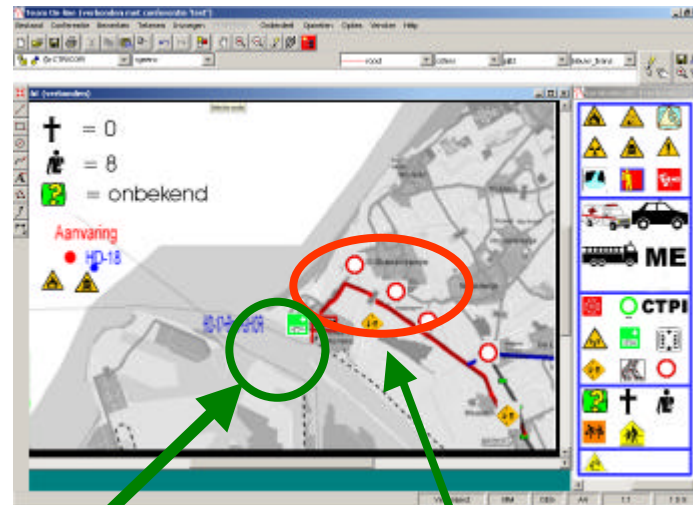
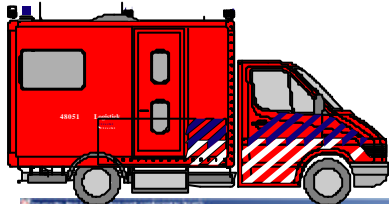


IM-Tasks to be supported

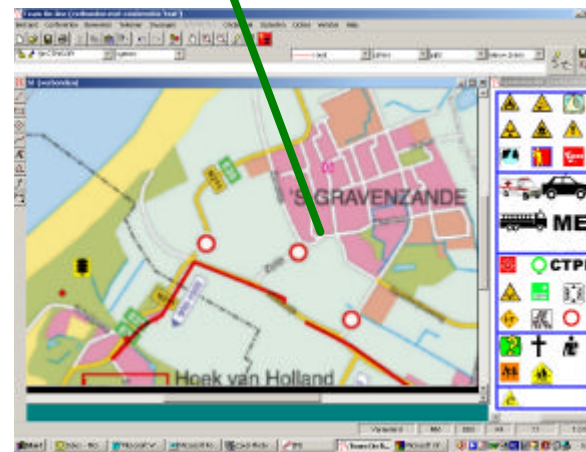
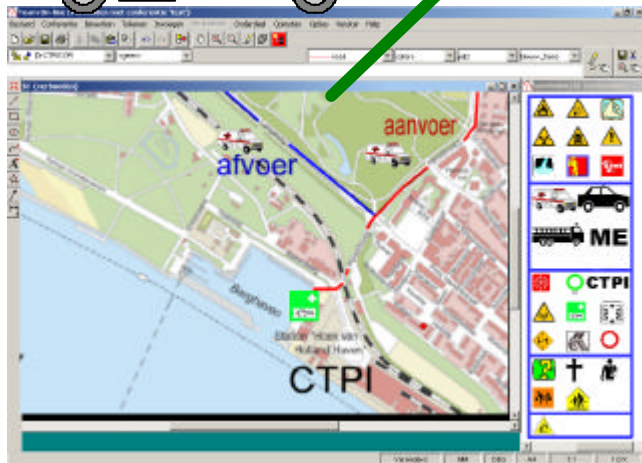
- Common Operational Picture
- Changemanagement
- Monitor on issuemanagement
- Automated Archiving
- Quick replay
- Targetted Information distribution
- Knowledge finding
- Filtering (Topics vs details)

Common Operational Picture

Disaster spot



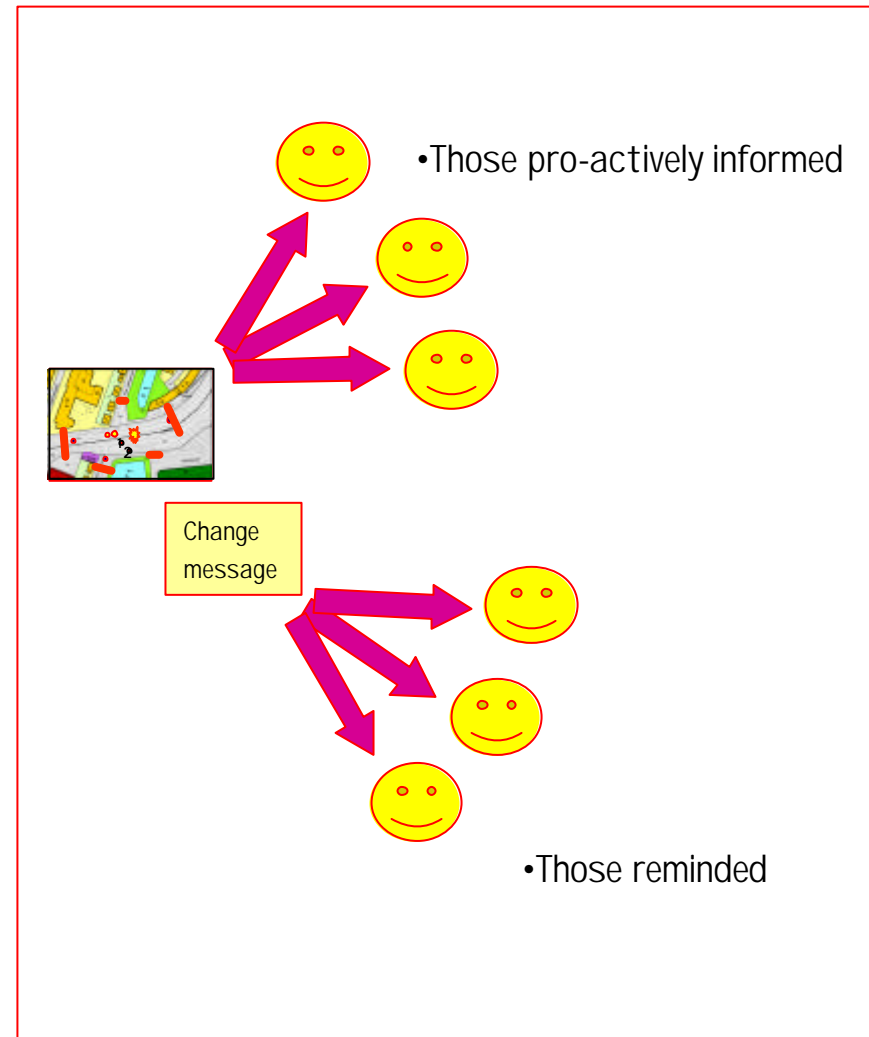
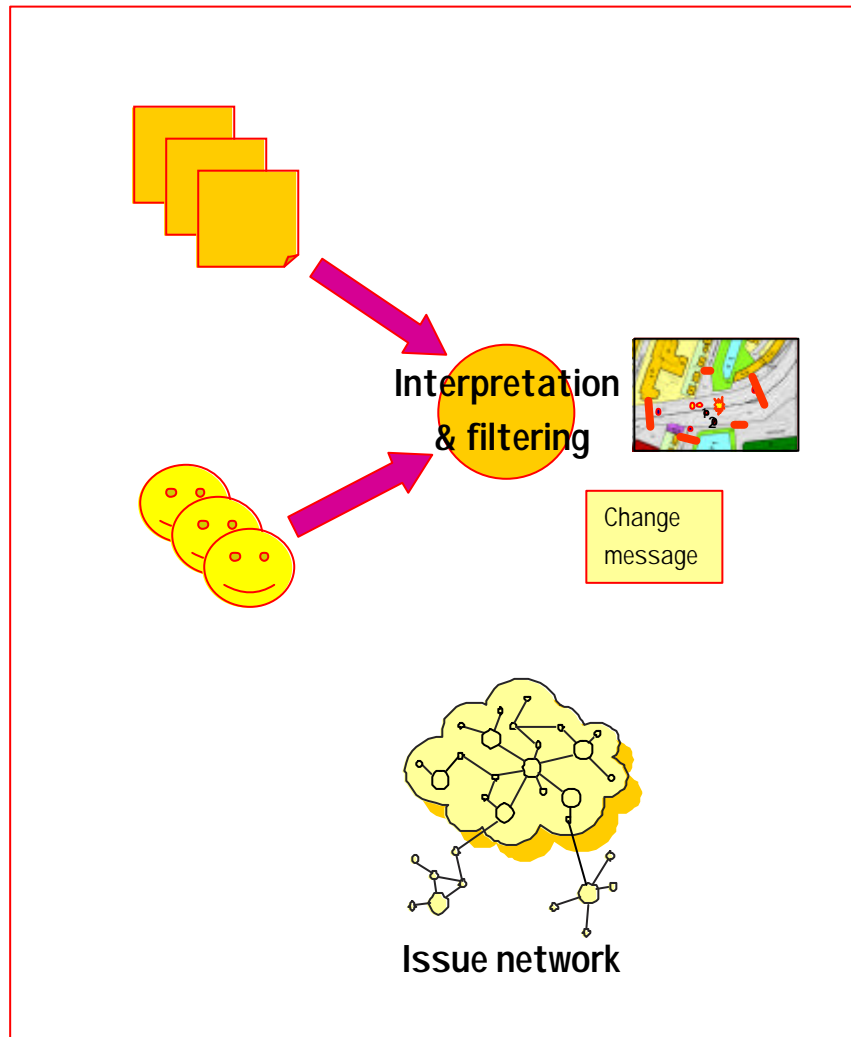
Coördination room



Dispatch room

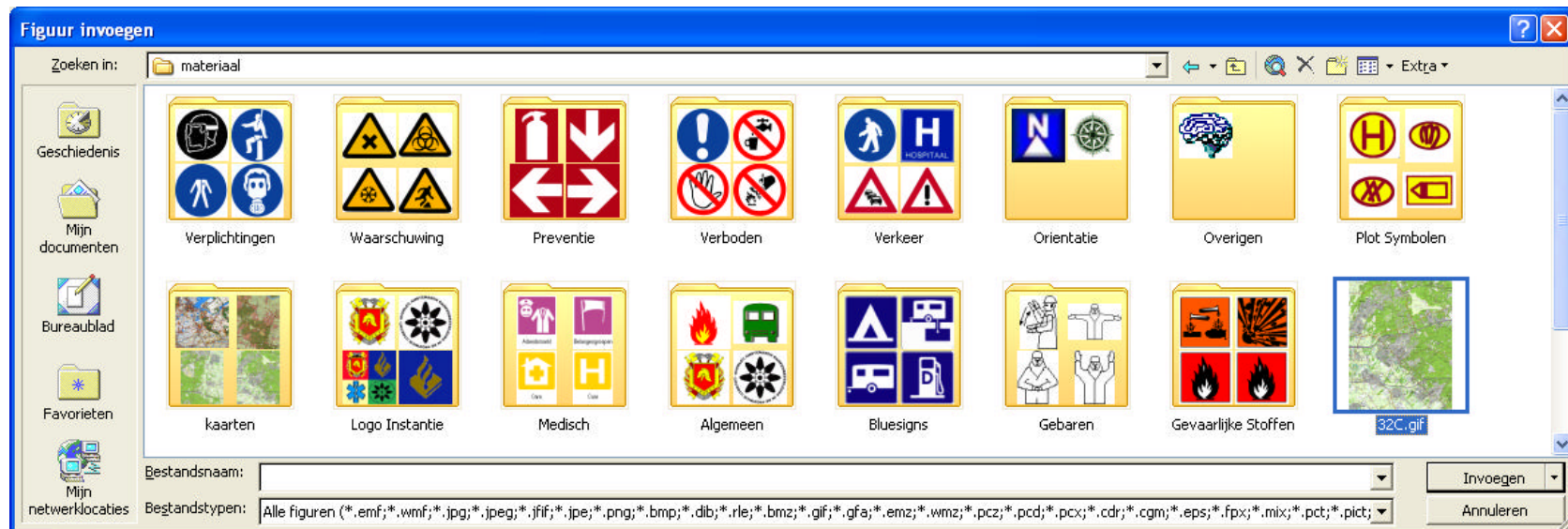


“Must know” vs “might need to know”

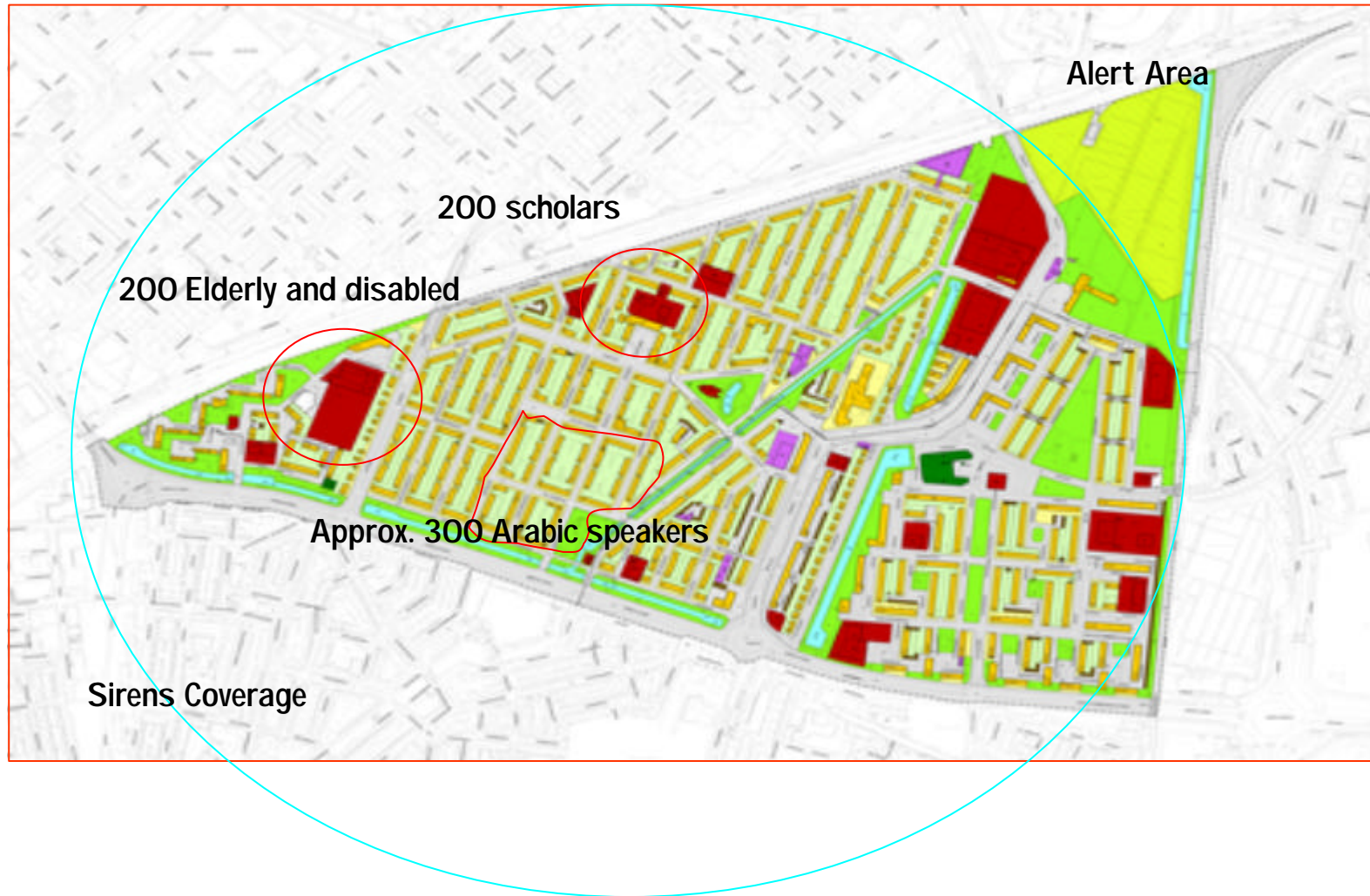


Presentation Issues

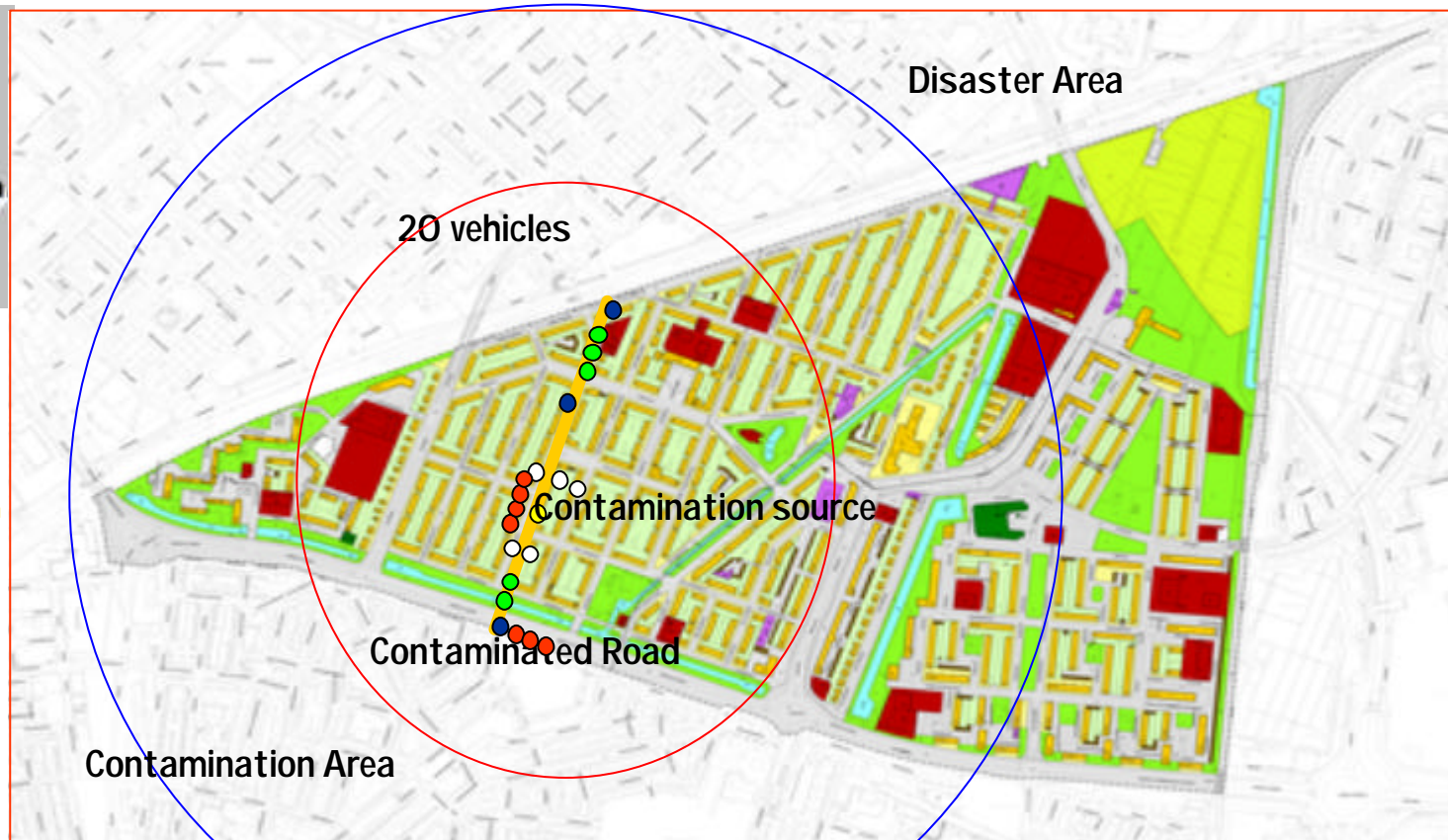
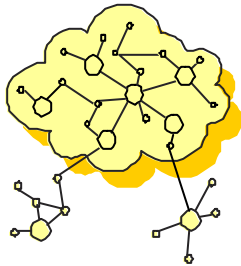
Sets of universal symbols



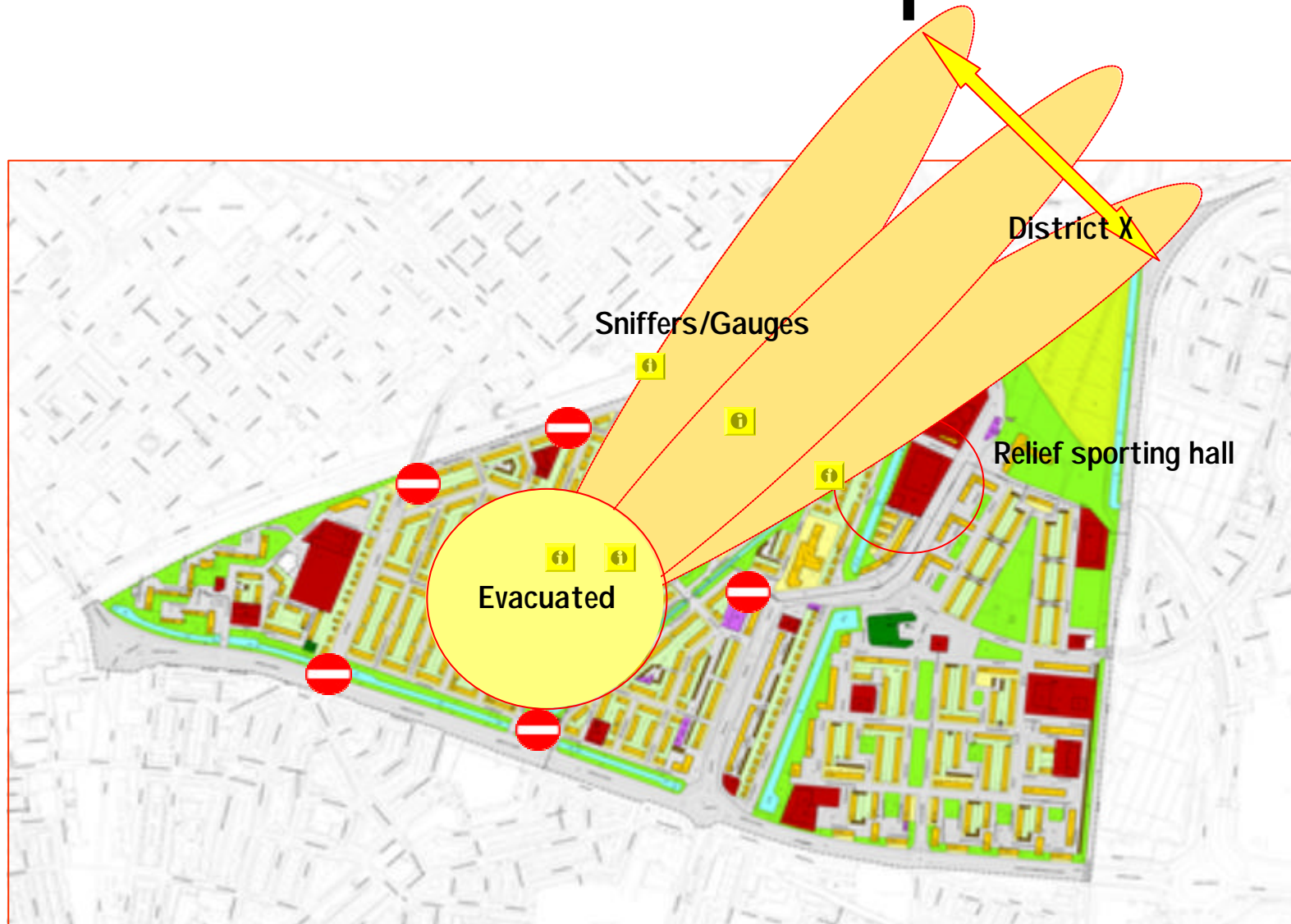
Alerting



Contamination

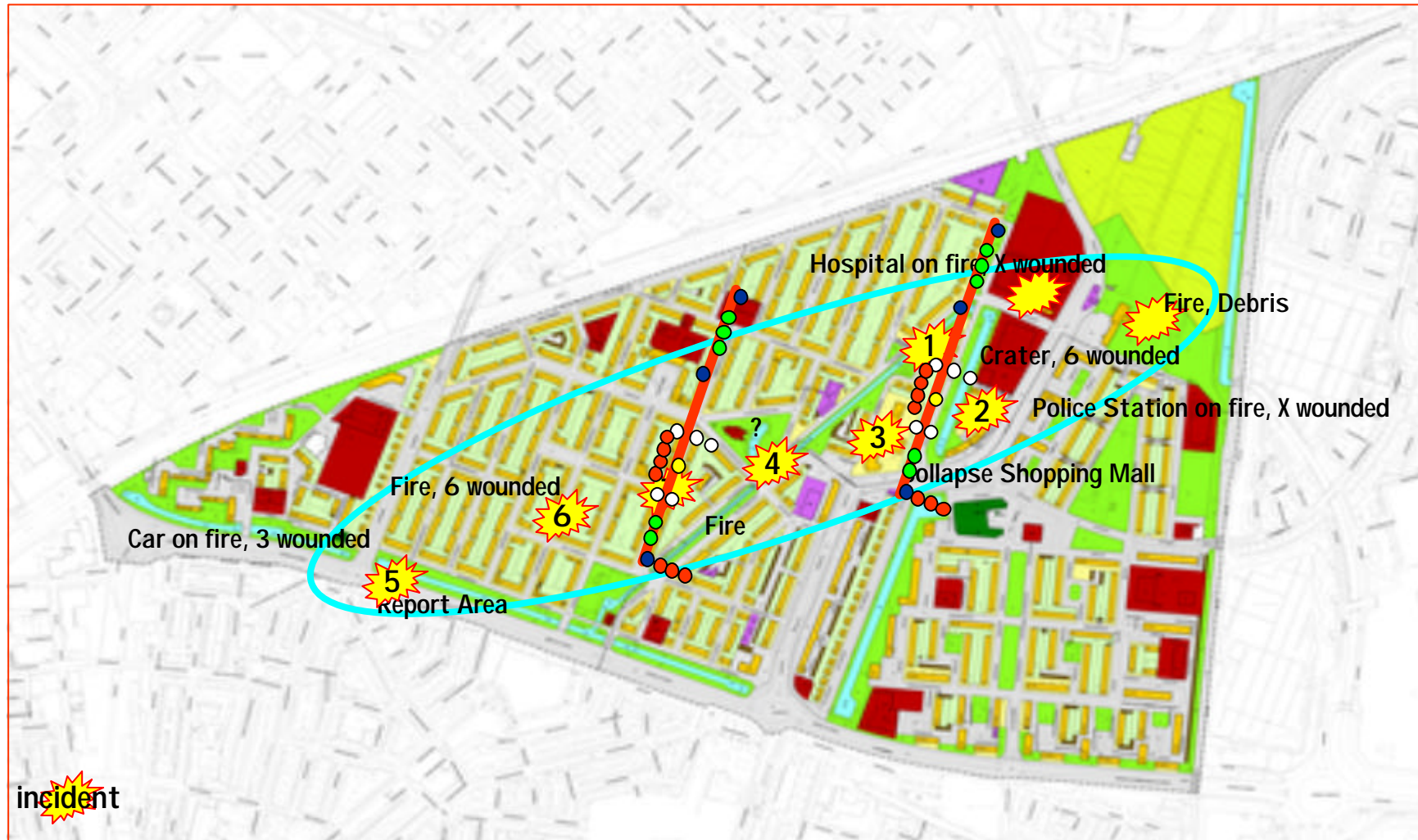


Hazard chemical spill



Problem & Workload orientation

Debris hits neighbourhood



Situation Report

IMI-EBUS - U bent ingelogd als vanvugt (GBO) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address <http://han-2.demon.nl/cocoon/mail/EBUS>

Google Zoeken Zoeksite PageRank Opties

lopende incidenten > Aanvaring Maasmond (06-04-04) > berichten > 16:50 Re: Terrorisme ?

Ongevalideerde informatie / Geen formele opdracht tot uitvoering

Incident	Aanvaring Maasmond (06-04-04)
Huidige GRIP-status	4
Bericht	Rond 16.00 uur is er een telefonische melding geweest op de PMK waarin melding werd gemaakt van een terroristische aanslag op de Stena Discovery. Vanuit de R.I.D. zijn er echter geen aanwijzingen dat een aanslag op handen

Onderwerp Terrorisme ?

Verzonden 6 april 2004, 16:40

Verzonden met GRIP 3

Ongevalideerde informatie / Geen

Incident	Aanvaring Maasmond (06-04-04)
Huidige GRIP-status	4
Bericht	NCC en PCC informeren of er al r aanvaring en brand op de Stena D Arabisch sprekende passagiers

Nieuw incident Help Uitloggen

Rechtentabel Wijzig adressen

Nieuw SITRAP Nieuw bericht Verwijderen Beantwoorden Doorsturen

IMI

Local intranet

Start IMI IMI-EBUS - U bent in... 9:10

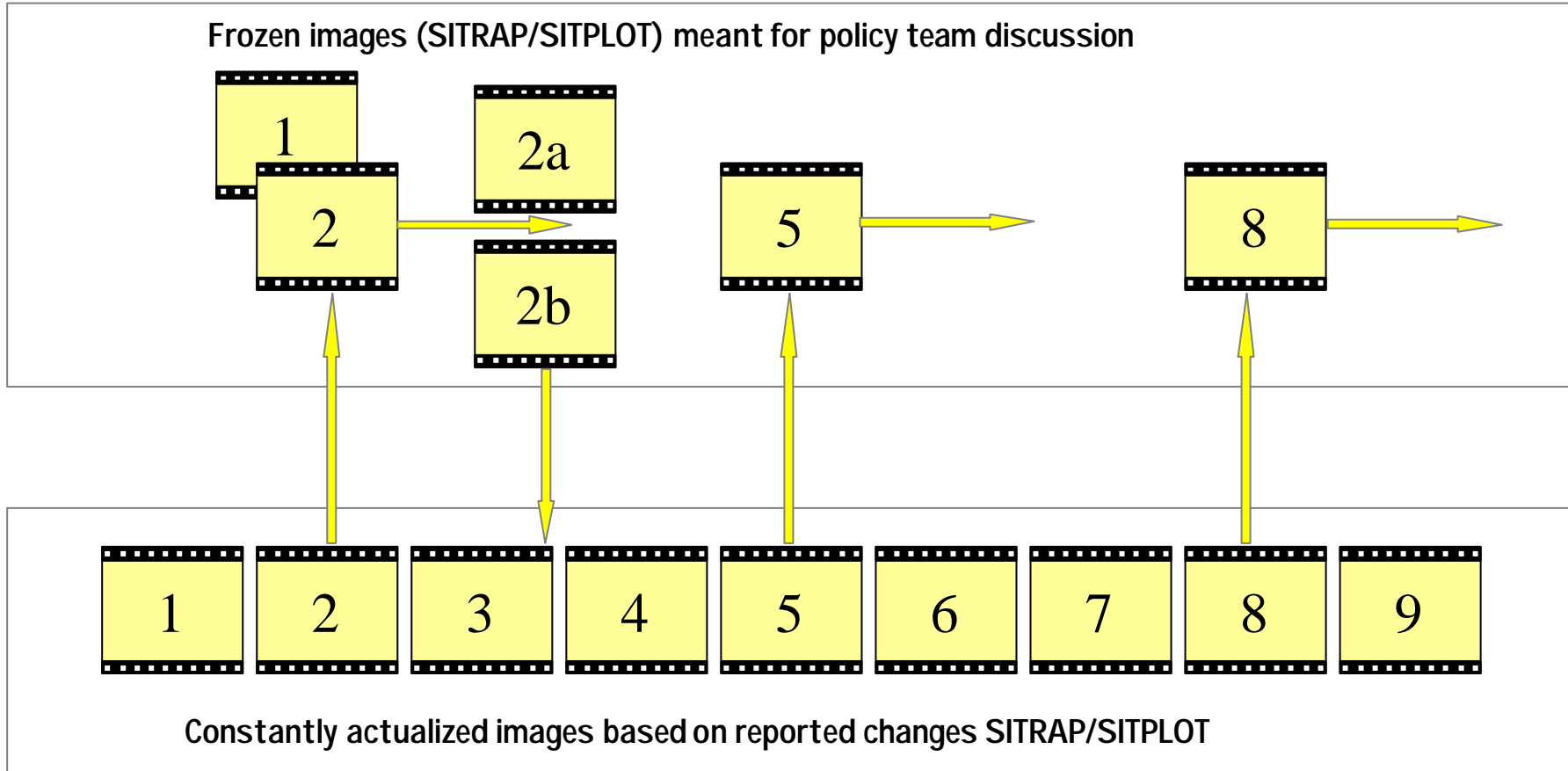
Situation reports / free text

Situation report

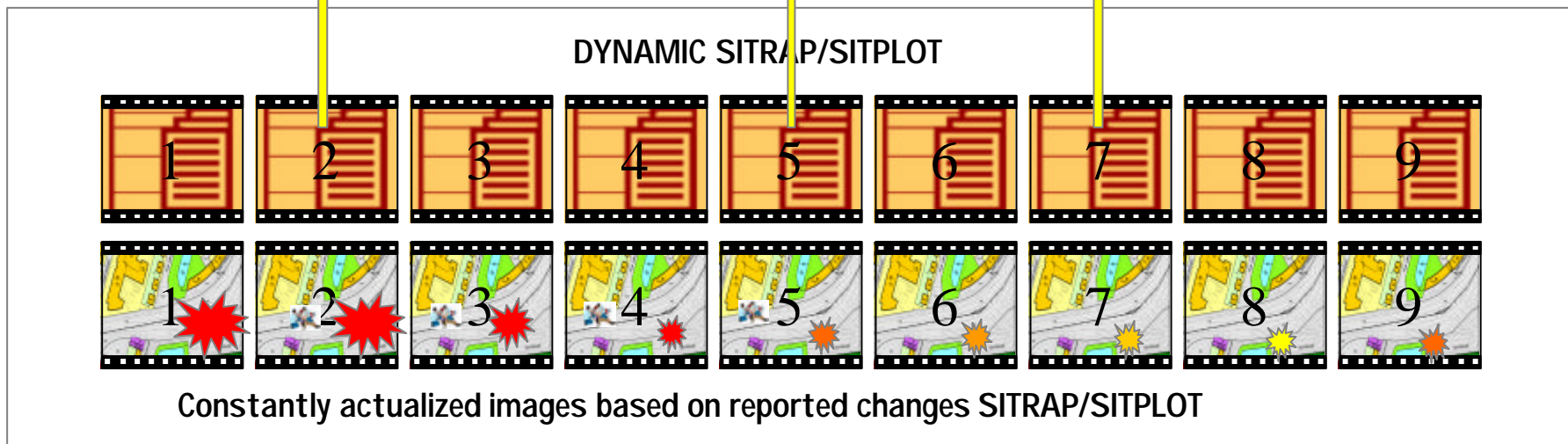
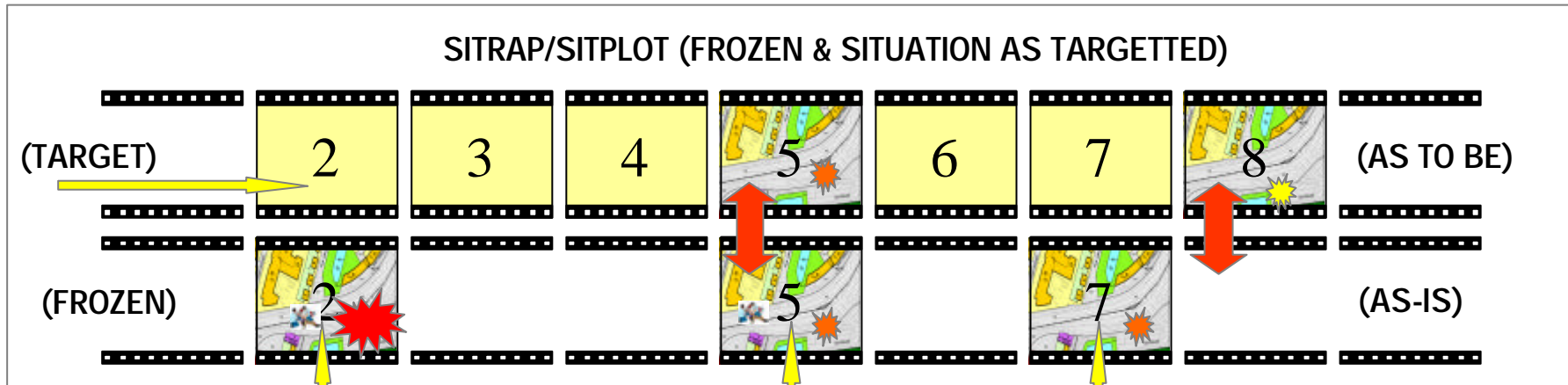
- What is going on?
- Starting moment/predicted end
- Number of casualties
- Weather situation
- Deployed operational units
- Press announcements
- et cetera



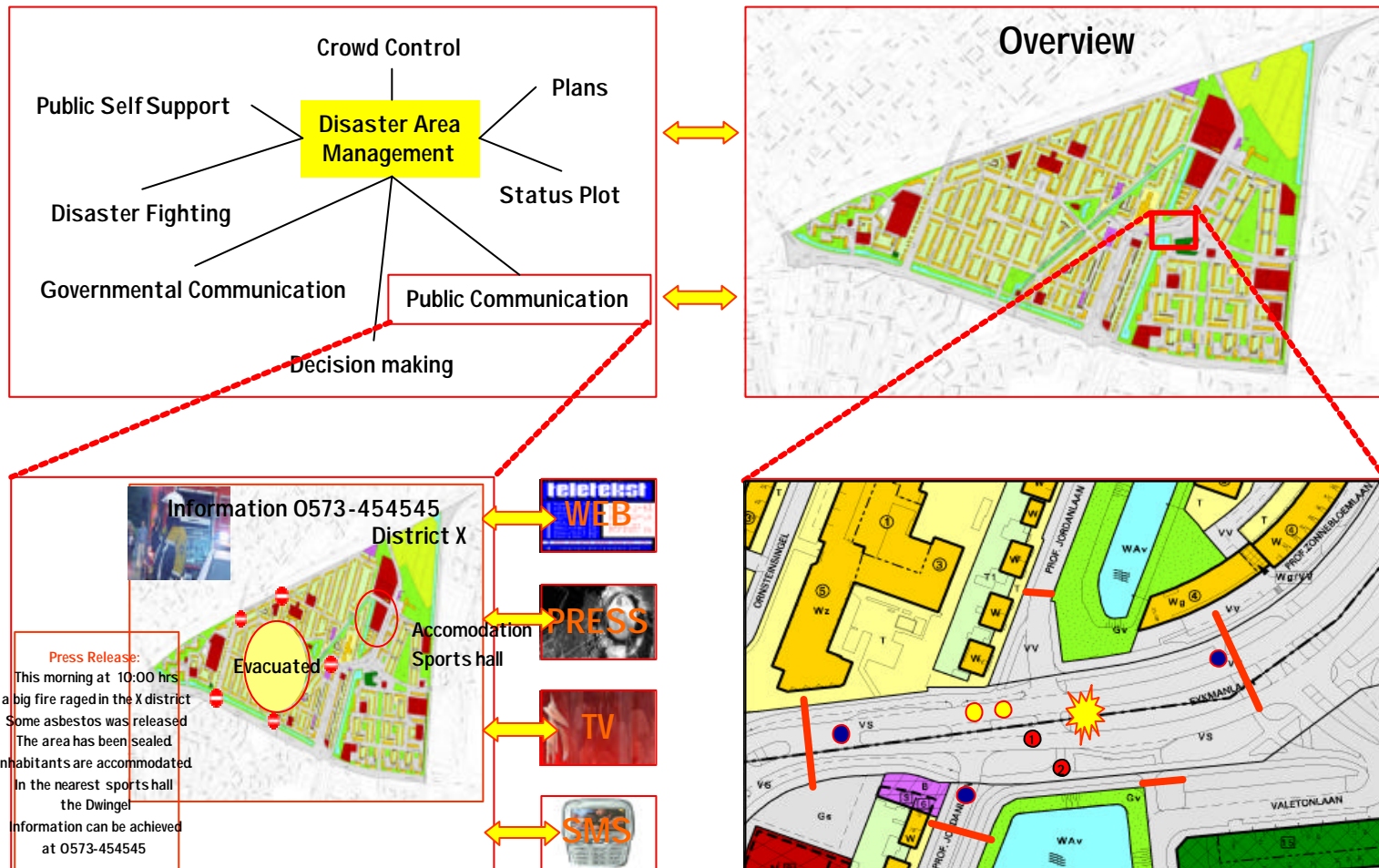
Static vs dynamic



ACTUAL & TARGET

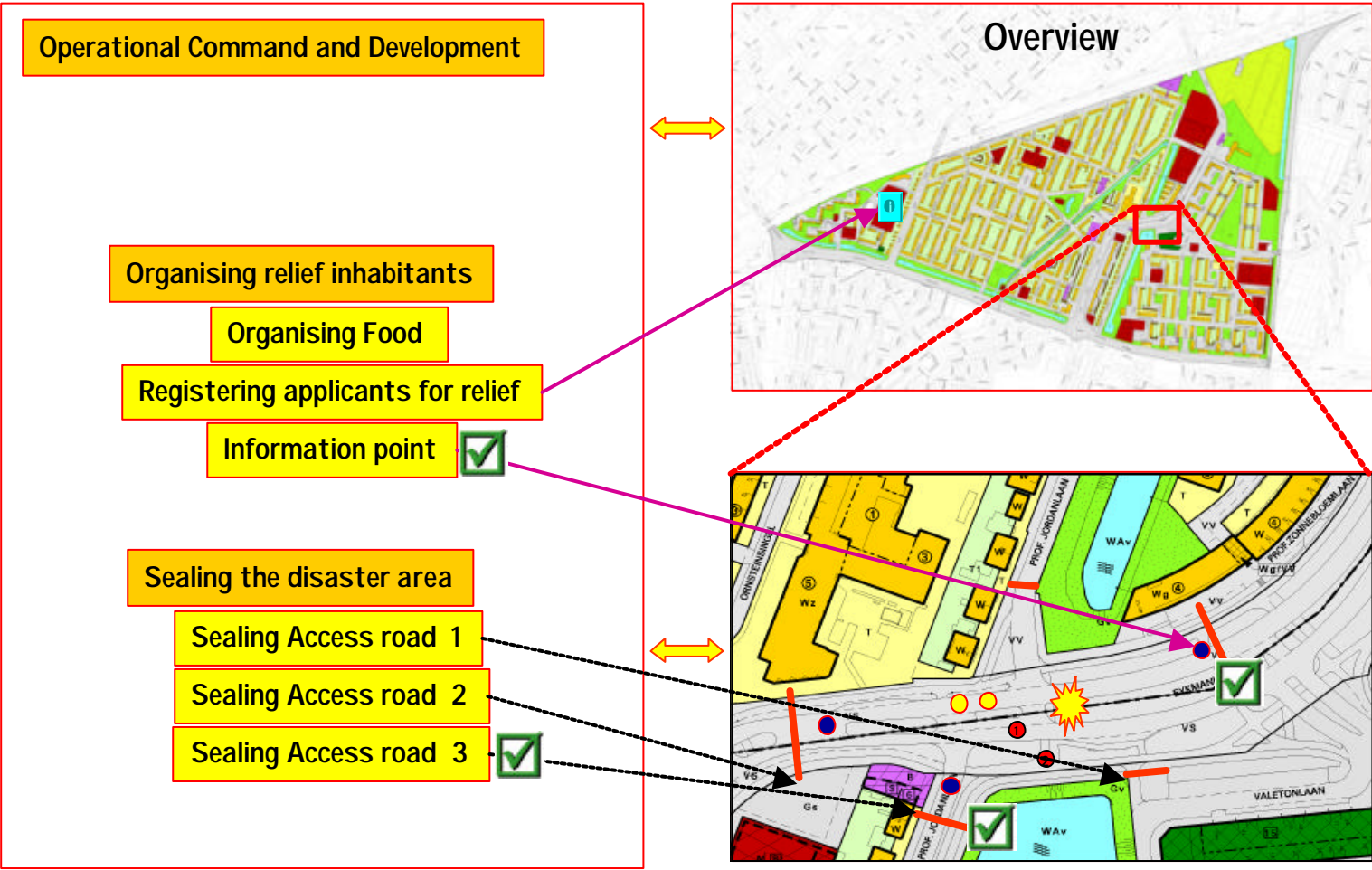


SCADA alike functionality



Approach working methods

G-linking



Wrap-up

- Information demand should rule
- CMIS systems combines SCADA & GIS functionality
- More is less;
- Focus and provide task/role based information detail
- CMIS: Ease of use rules

Thanks for your attention

Any questions?

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