

***Involvement of Pays de Montbéliard
Agglomération in the preparedness of emergency
situations : local emergency planning and water
management***

NERIS WP2 Meeting : Emergency preparedness and
stakeholder participation

Mon 26th – Tue 27th November, Oslo

S. Biguenet

Presentation of the Montbéliard urban community

- Montbéliard urban community (PMA):
 - ✓ 120 000 inhabitants
 - ✓ 29 municipalities
 - ✓ a council composed of 68 representatives
 - ✓ competence in economic, social, health, environmental and education fields



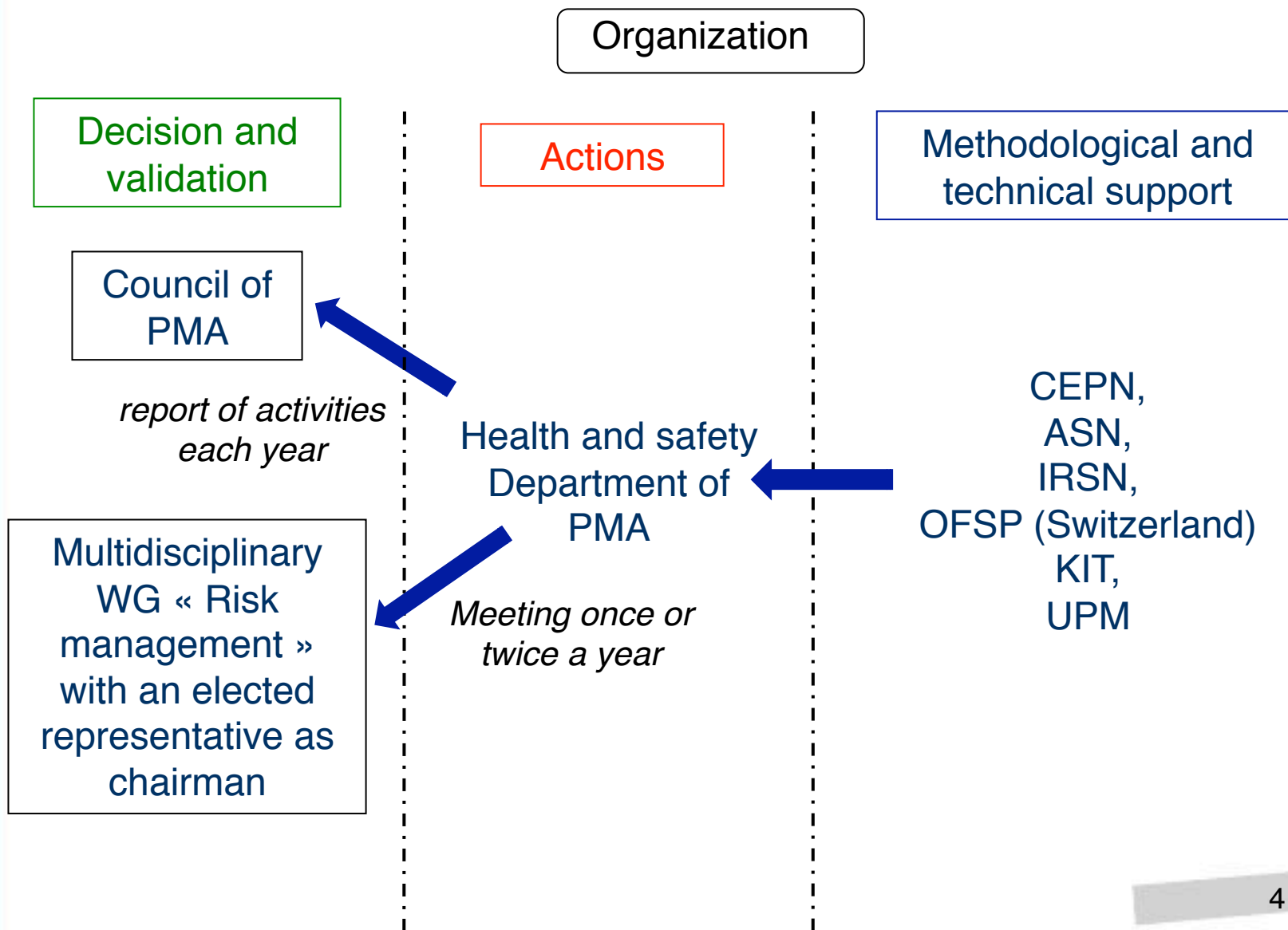
Involvement of PMA in the risk management

- Since 2005, PMA decided to help the municipalities in establishing Local Emergency Plan, as required by the French law of 13 August 2004 related to the modernization of civil security

- This project is carried out by the Health and Safety Department of Montbeliard composed of a section head and 3 public health inspectors.

- Creation of a local Working Group on “Risk management”
 - ✓ Composed of various stakeholders: elected representatives, prefecture, civil safety associations, firemen, police, etc.
 - ✓ Multidisciplinary working group to tackle all the risks of the territory (flooding, breaking dam, etc.)
 - ✓ The chairman of the WG is an elected representative of PMA

Involvement of PMA in the risk management



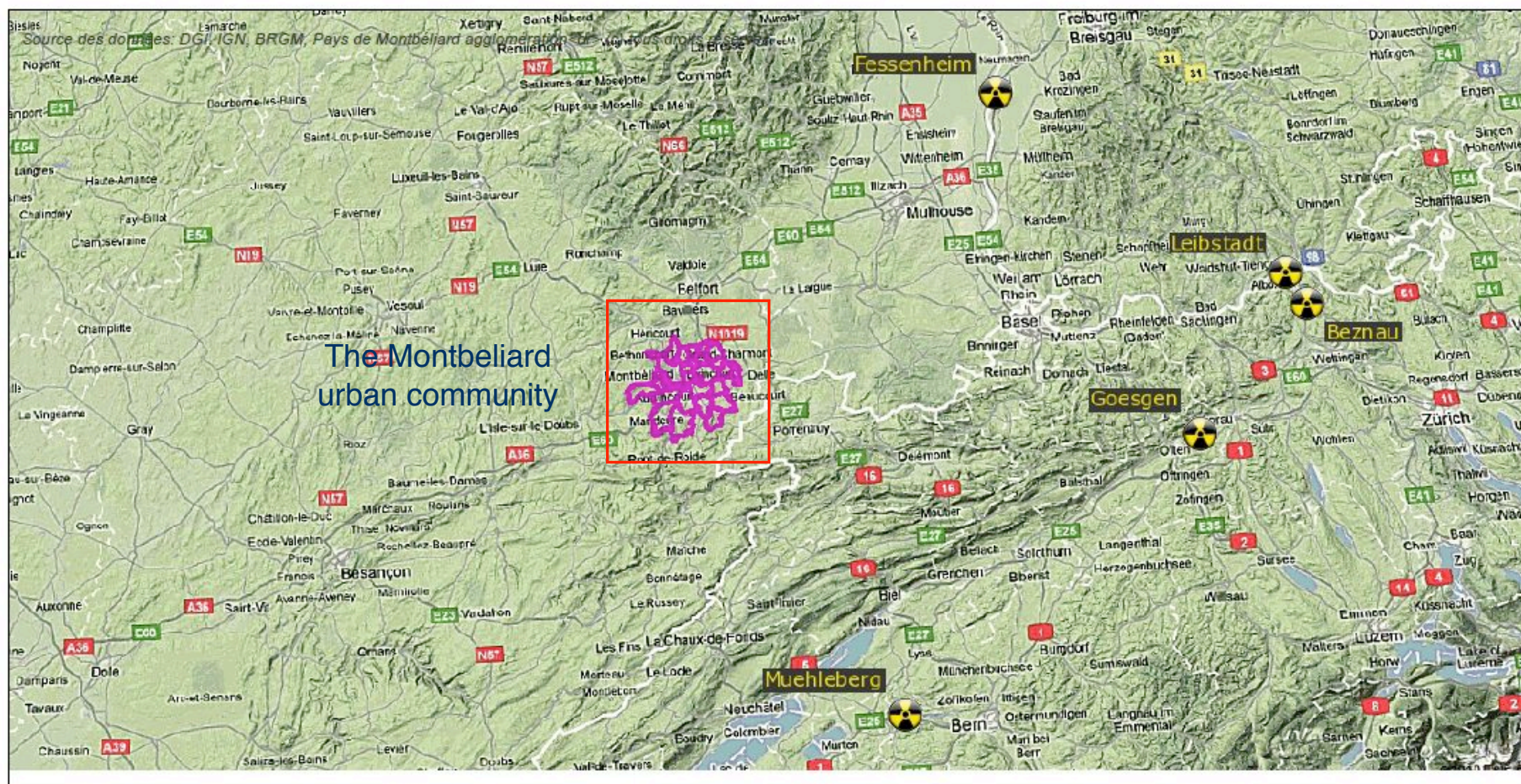
Involvement of PMA in the risk management

- Geographic Information System (GIS) development to visualize the territory of PMA with :
 - ✓ Risks (flooding, transportation of hazardous cargoes...)
 - ✓ Stakes (population, public building, industry, agriculture...)
 - ✓ Resources, means (firemen, police...)
- Can be used in a preparedness perspective but also to manage crisis
- Local representatives and technicians were trained to use the GIS : very positive feedback

The Montbeliard Radiation Protection Pilot Project

- At the same time, development of the Montbeliard Radiation Protection Pilot Project with support of CEPN (methodological support)
- The objectives are :
 - ✓ To improve radiation protection of the inhabitants of PMA in the various exposure situations which can be potentially encountered on the territory (medical exposures, radon in dwellings...)
 - ✓ To promote the creation of a pole of competence in the field of radiation protection in the territory
 - ✓ Over the long-term, to develop the radiation protection culture among inhabitants
- No nuclear power plants in the territory but PMA is in the vicinity of 5 nuclear power plants around 100 km (Fessenheim in France and Beznau, Muelheberg, Goesgen, Leibstadt in Switzerland)
- **PMA engaged a reflection on the radiological risk and included this aspect in the Montbeliard Radiation Protection Project**

Location of nuclear power plants near the Montbeliard County



0 8200 16400 24600 32800 m

Local emergency planning and water management

- PMA was involved in the EURANOS Project and the NERIS Project
- Since 2010, PMA is involved in the CODIRPA project in France led by ASN (French Nuclear Safety Authority) with aim of :
 - ✓ Drafting procedures to improve local emergency planning from the CODIRPA recommendations
 - ✓ Developing specific GIS for preparedness of emergency situations “Nuclear and Radiological Risk GIS”
- Use of the MOIRA tool for a first analysis of the risks associated with radiological contamination of water in order to prepare and manage this risk

Involvement in the CODIRPA process(1)

- Work on the practical implementation of the CODIRPA recommendations in local emergency plan
- Several stages :
 - ✓ To draw a parallel between local emergency plan and the CODIRPA recommendations
 - ✓ To draft preparedness plan sheet for each actors in charge of local emergency situations
 - ✓ To modify GIS tool for emergency and rehabilitation preparedness at community level from local database with stakes, resources and means

Involvement in the CODIRPA process(2)

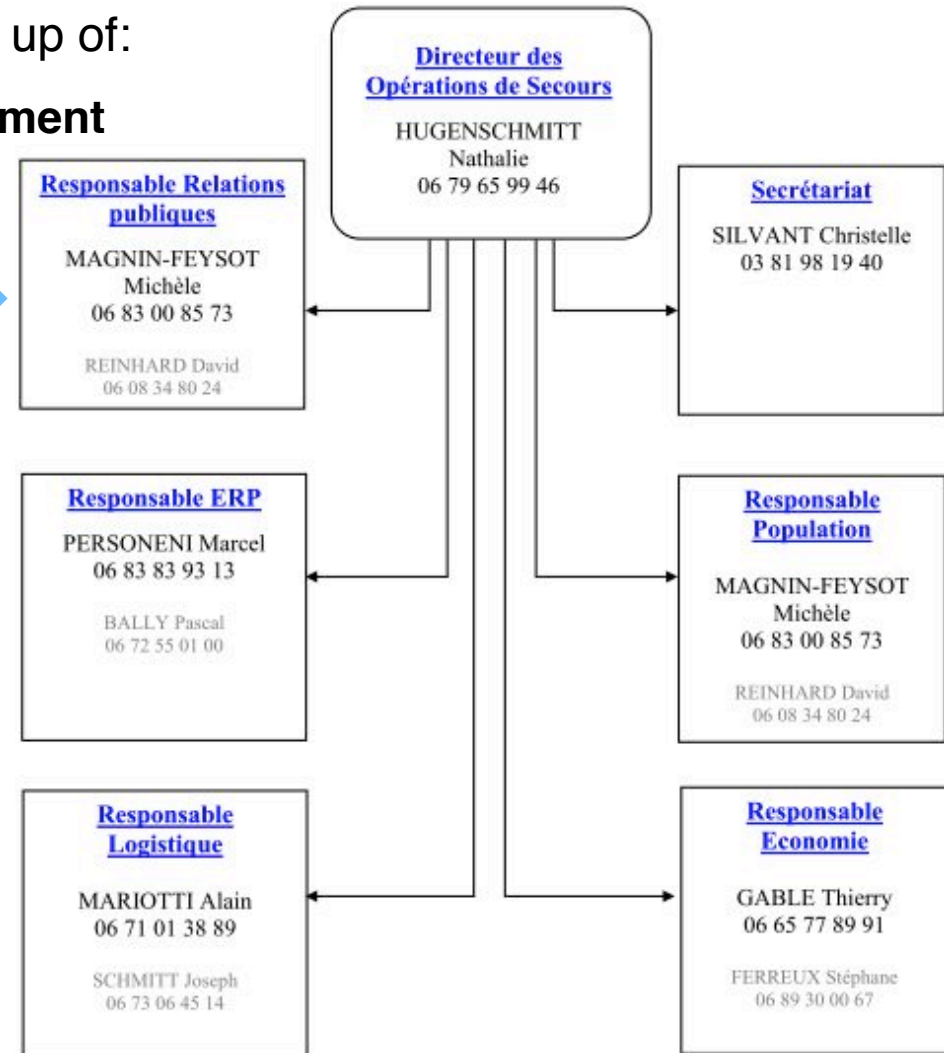
- Local emergency plan is made up of:

- Local emergency management

With local crisis unit based on 7 leaders among elected representatives

- Rescue resources

- Local presentation and risks assessment



Nuclear and radiological GIS

Link with GIS

Commune d'Arbouans

PLAN RISQUE RADIOLOGIQUE & NUCLEAIRE

Mise en place du CAI

TÂCHE 8

Objectifs

Le but est de mettre un bâtiment communal à la disposition des intervenants pour mettre en place le CAI.

Moyens humains

Nom	Téléphone bureau	Téléphone portable	Téléphone personnel
Le maire, Directeur des opérations de secours HUGENSCHMITT Nathalie		06-79-65-99-46	
Responsable Logistique MARIOTTI Alain		06-71-01-38-89	
Responsable Logistique (suppléant) SCHMITT Joseph		06-73-06-45-14	
Responsable ERP BALLY Pascal		06-72-55-01-00	
Responsable ERP (suppléant) PERSONENI Marcel		06-83-83-93-13	
Responsable Relations Publiques GABLE Thierry		06-61-45-78-37	
Responsable Relations Publiques (suppléant) REINHARD David		06-08-34-80-24	

Moyens matériels

Nom	Sous la responsabilité de ...
Bâtiments communaux : Gymnase, Salle des fêtes, Centre communal, etc...	Responsable ERP
Mobiliers : Bancs, chaises, tables, bureaux, Cloisons modulaires pour « open space », Panneaux d'affichage, Tableaux (pour écriture), etc	Responsable Logistique
Fournitures de bureau : Papiers, post-it, stylos, ruban adhésif, etc, Lampe de bureau	Responsable Logistique
Equipements audiovisuel, électrique, Informatique et Télécommunication : Haut-parleur, micro, Projecteur, Rallonge, multiprises, éclairage d'appoint, Ordinateurs, imprimantes, scanners photocopieuses, Téléphones normaux, téléphones IP, Fax, Switch (pour le partage de connexion internet, voir téléphonique), câblages (câbles Ethernet, téléphonique),	Responsable Logistique
Communication : Brochure, Affiche, Etc	Responsable Relations Publiques

Mise en place de la (ZPP)

Choisir les lieux de positionnement des CAI (8)-Mise en place du CAI

Mise en place d'un zonage post-proximité de la

lieux supplémentaires (établissements scolaires, établissements de soins Intragéo risques et nucléaire)

de la Préfecture

Intr@Geo Collaborative Suite 4.5

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AIDE

Légende

Couches
Légende sur demande

- I - GESTION POST-ACCIDENTELLE
- I - 1) Définition du zonage
 - a. Zonage (modélisation)
 - b. Zonage (application)
 - c. Communes impactées
- I - 2) Actions transverses
 - a. Centres d'Accueil et d'Information
- I - 3) Gestion de l'éloignement
 - a. Points de rassemblement
 - b. Points de sortie
 - c. Itinéraire d'éloignement
 - d. Lieux de relogement
- I - 4) Gestion de l'alimentation en eau potable
 - Prélèvement d'eau
- I - 5) Gestion des déchets
 - Sites de stockage de déchets

Mise à jour graphique

Visibilités / Positions

Coordonnées

Recherche

Editer un fichier

Source des données: à définir
(c) tous droits réservés.

kilomètres
0 100 200

Intr@Geo Collaborative Suite 4.5

1:10000

AIDE

Rafraîchir la carte

Légende

Couches
Légende sur demande

- I - GESTION POST-ACCIDENTELLE
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- I - 2) Actions transverses
 - a. Centres d'Accueil et d'Information
- I - 3) Gestion de l'éloignement
- I - 4) Gestion de l'alimentation en eau potable
- I - 5) Gestion des déchets
- I - 6) Amélioration de la situation radiologique en milieu bâti
- I - 7) Mise sous séquestre des exploitations agricoles
- II - ENJEUX LIES A LA PROTECTION DES PERSONNES
- II - 1) Répartition de la population (rapportée au bâti)
- II - 2) Etablissements recevant du public (ERP)
- III - ENJEUX LIES AUX RESSOURCES ET A LEUR ACHEMINEMENT
- III - 1) Réseau routier
- III - ENJEUX ECONOMIQUES ET

Mise à jour graphique

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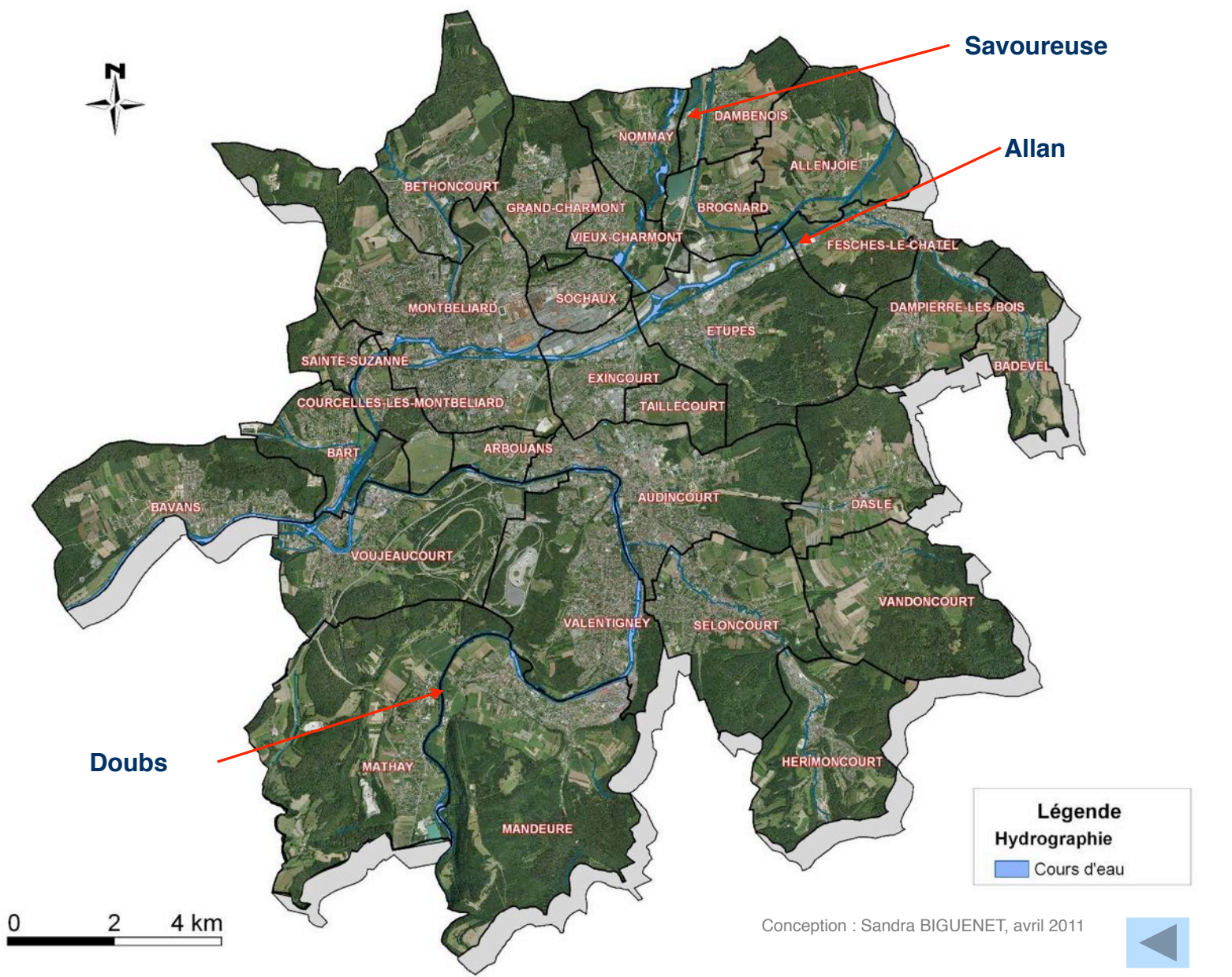
Source des données: à définir
(c) tous droits réservés.

- To improve the preparedness plan sheets for the different representatives and the associated tasks :
 - ✓ According to the evolution of the CODIRPA doctrine
 - ✓ Discussion with municipality representatives to identify their remarks on the nuclear preparedness plan, to adapt the sheets to the local specificities and see how to integrate them in the local emergency plans
 - ✓ Development of tasks according to the community responsibilities: transports, wastes, water management

- To develop the Geographic Information System
 - ✓ Possibility to summarise at any time the situation in electronic and paper formats

Use of the MOIRA tool (1)

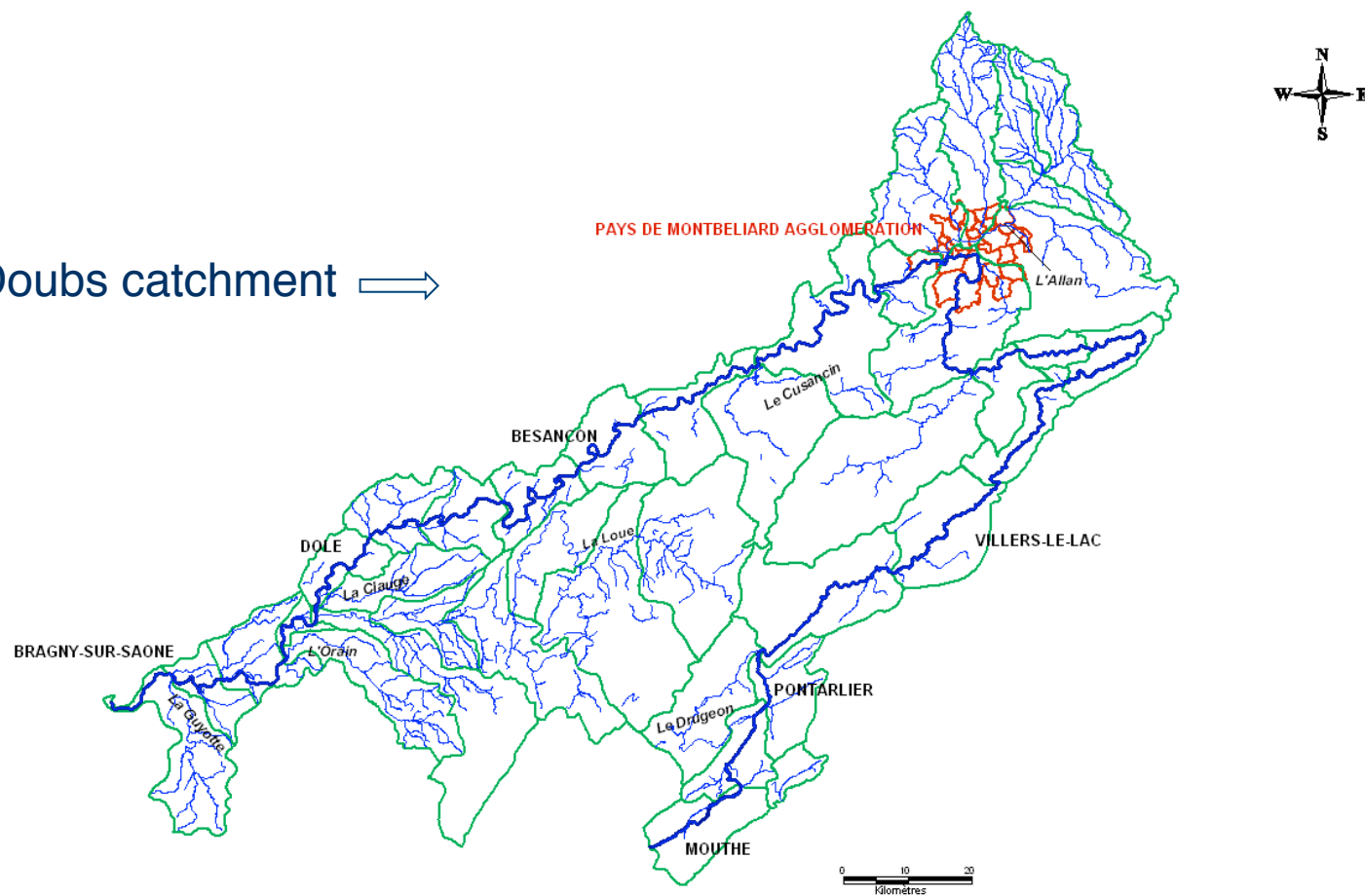
- Local context :
 - ✓ 3 main rivers crossing the territory
 - ✓ Only one water draw off point in the territory (Doubs river) for the 120 000 inhabitants of PMA
 - ✓ 5 nuclear power plants around 100 km
- Link to the GIS of Montbéliard community to define the local data in MOIRA
- Simulation made with an accident in Mühleberg NPP (Switzerland) affecting the Doubs river crossing the Montbéliard territory
- **Objective : identify key issues to enable local people to engage a reflection on the radiological consequences for the PMA territory in case of a radiological contamination of freshwater bodies and catchments**



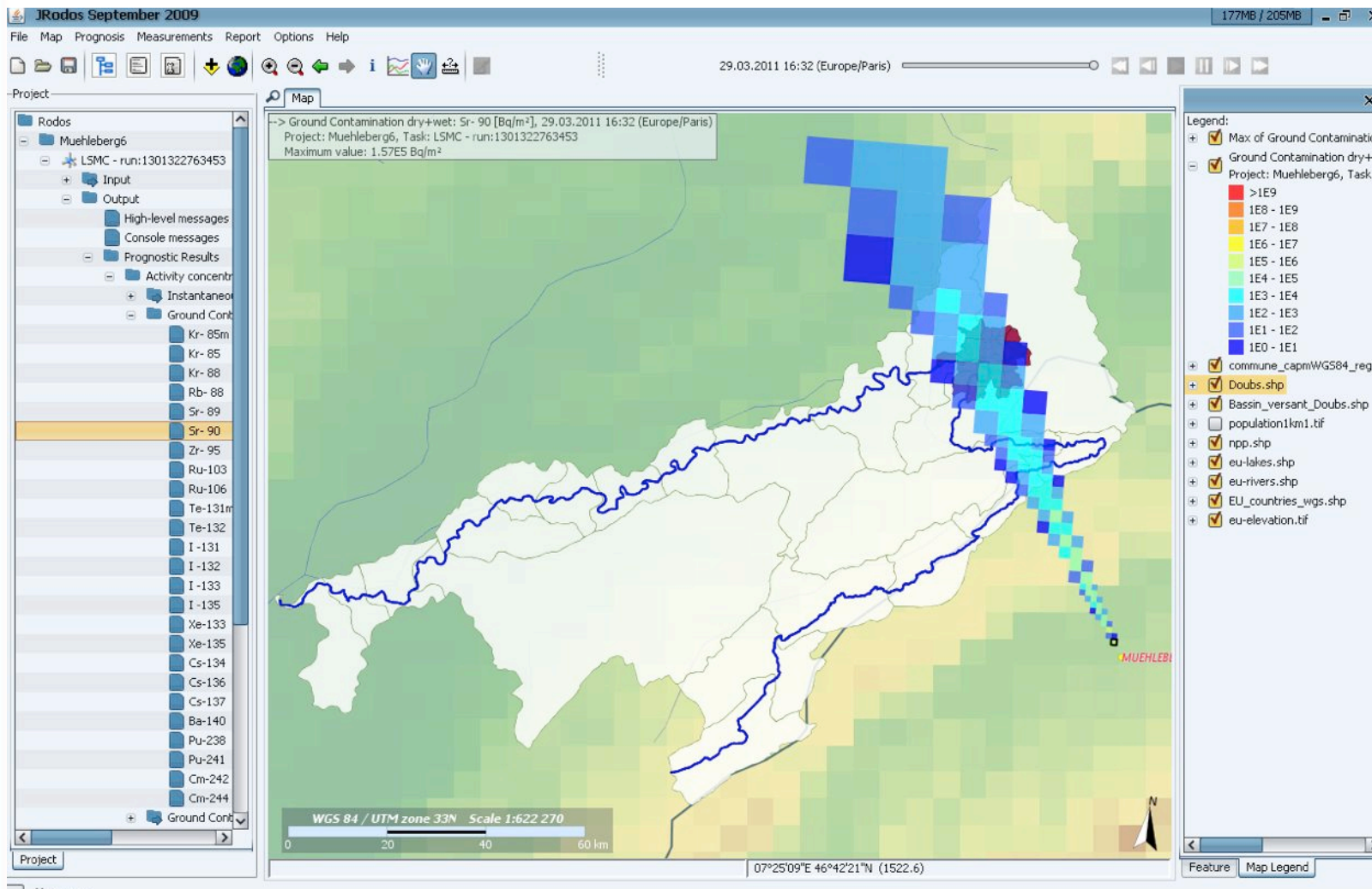
Water balance and territory features

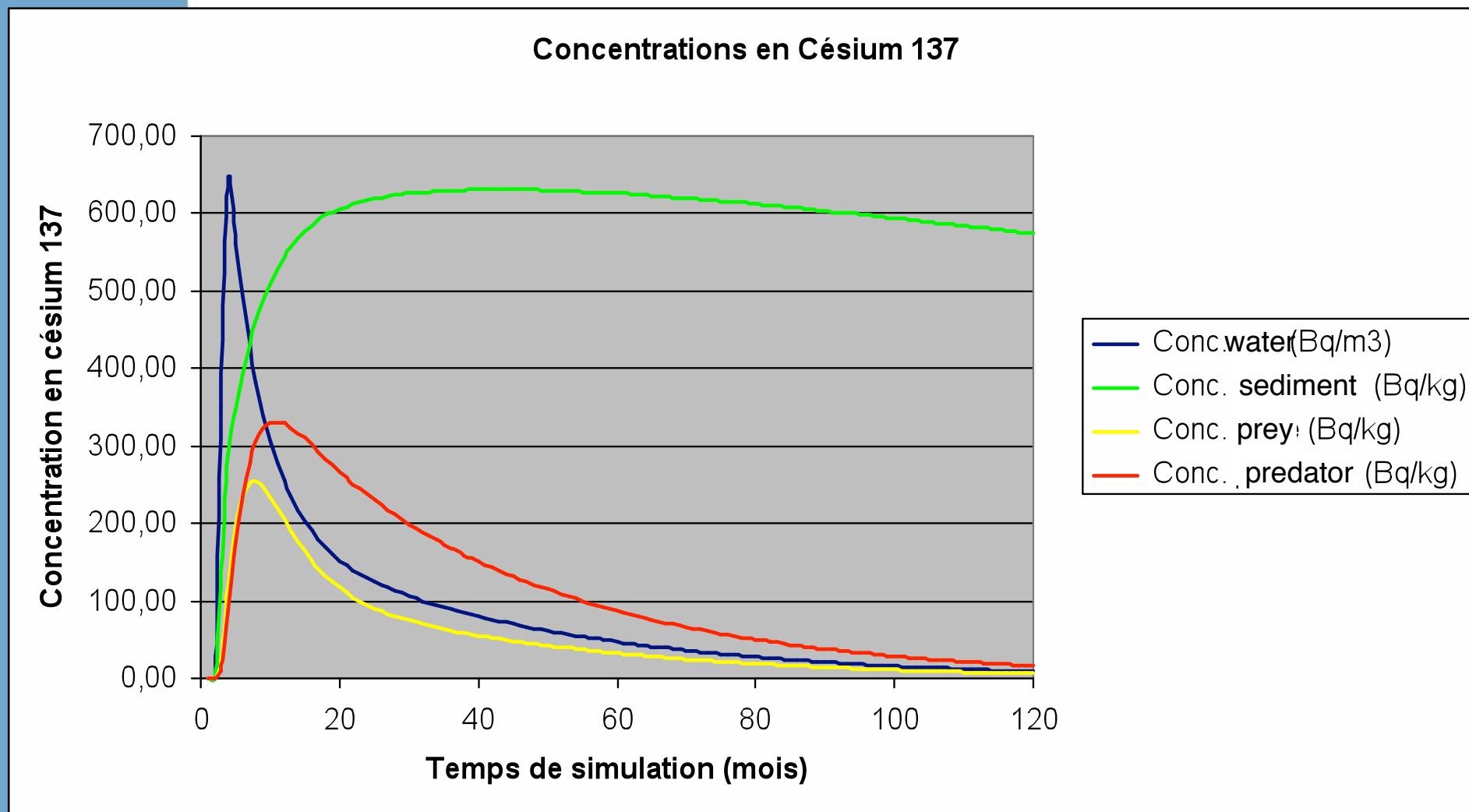
- Use of national database (population, hydrologic data, economic data, agricultural and fishing data...)

Doubs catchment ⇒

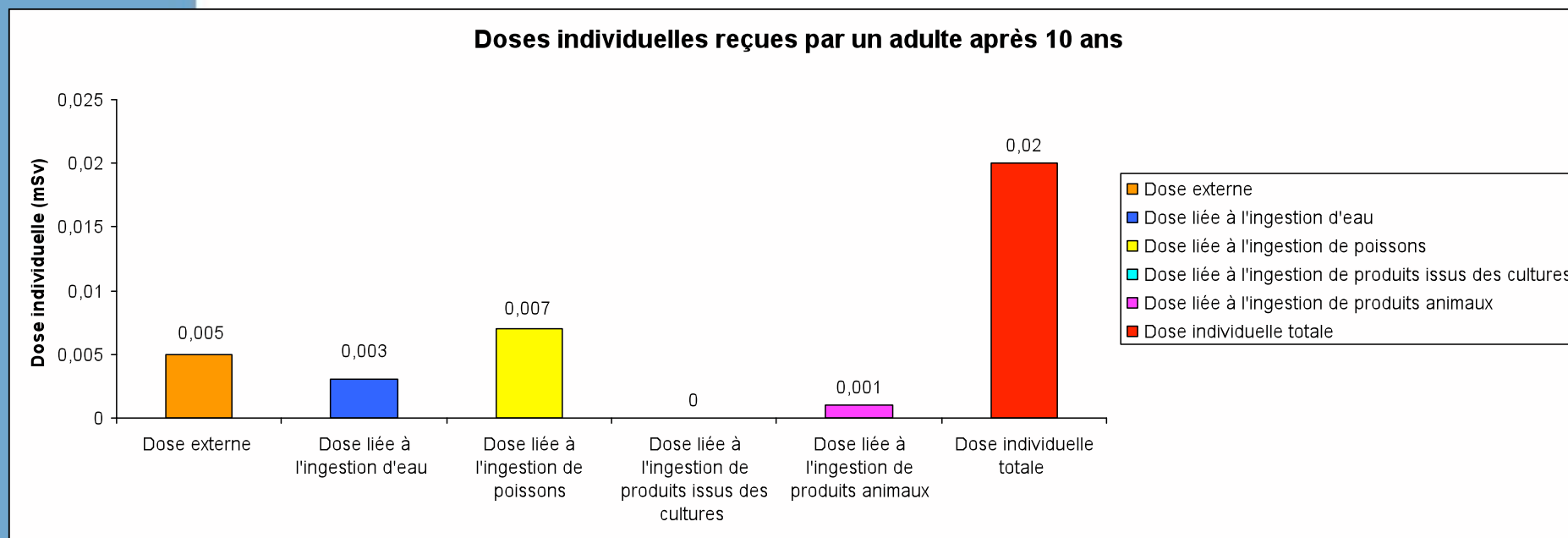


Cs137 et Sr197 assessment with RODOS



^{137}Cs concentration in the Doubs river

Dosimetric results for an average individual after 10 years



- Present these results to the local working group on risk management
- Discussion with municipality representatives to insert the preparedness plan sheets into the local emergency plans
- Discussion about the preparedness emergency situations with training or simulation exercise to appropriate these documents and GIS tool
- Reflection about the community responsibilities: transports, wastes, water management in the preparedness emergency situations

- Discussion regarding water issue (only one water draw off point in the territory) : to launch vulnerability analysis
- Integration of water issue in the GIS of the community

**Involvement in the preparedness emergency situations
enables PMA to feed global risk management**