WP2: Building pathology - progress

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Overview presentation

- Short reminder of objectives
- Program of work and planning
- Specifications of knowledge base
- Next steps

Overall objectives of WP2 (reminder)

- Development of an EU-wide knowledge base on building pathology that could support (re)insurers in their risk appraisal of new innovative technologies, especially eco-technologies.
- To make collected information available in a *pilot* database.

‘Building pathology’

Building Pathology : the study and diagnosis of defects/failures and damages of a building

Program of work

1. State of the art on building pathology
   - Definition of 'building pathology';
   - Review of existing research work and data sources;
   - Developing a questionnaire;
   - Collection of information on availability of data sources and pathology data for 10 selected eco-technologies;
   - Assessment of the value of the existing research work, data sources
2. Needs and criteria to develop an EU knowledge base
   - Analysis of the needs and the criteria of insurers;
   - Program of requirements for the pilot database;
3. Format and informatics requirements for the database
4. Developing, testing, validating the database
5. Updating the database

Planning

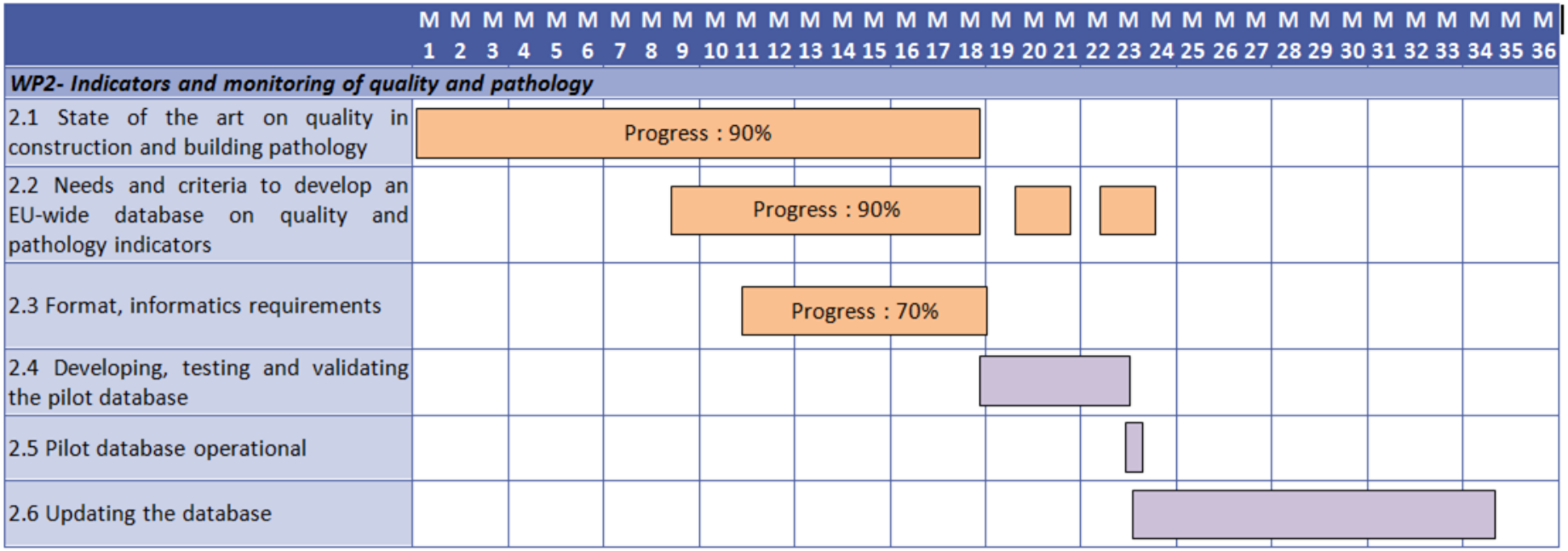


Figure 2.1: Work programme

Colour coding		
	Green	Finished
	Orange	In progress
	Grey	A future deliverable

Summary of information needs

The insurance industry would be interested to have a tool with the following functionalities:

- A database with pathology records, that provides *qualitative* technical information on the pathology of eco-technologies (without any statistical data disclosure of claims).
- A 'Warning procedure' (or hazard notification procedure), where interlocutors in each country can report issues/defects.
- An overview of quality signs for eco-technologies (as an extract from the quality signs directory to be developed within WP1).

'Eco-technologies Quality European Observatory' (EEQO).

Fields of the database

Unique record key	
1	System serial number
2	Name of the information provider
3	Dossier code of the information provider
Identification of the construction work where the defect/failure has occurred	
4	Name of construction work or project
5	Country where the construction work or project is executed
6	Town where the construction work or project is executed
7	Geo-climatic character of the location of the construction work or project
8	Type of construction work
9	Starting date of the work
10	End date of the work
11	Has the construction work or project been completed?
12	Was there a completion survey for the handover of the construction work/project to the client?
13	If yes, what was the date of the completion survey?
14	Date of the failure/defect/damage

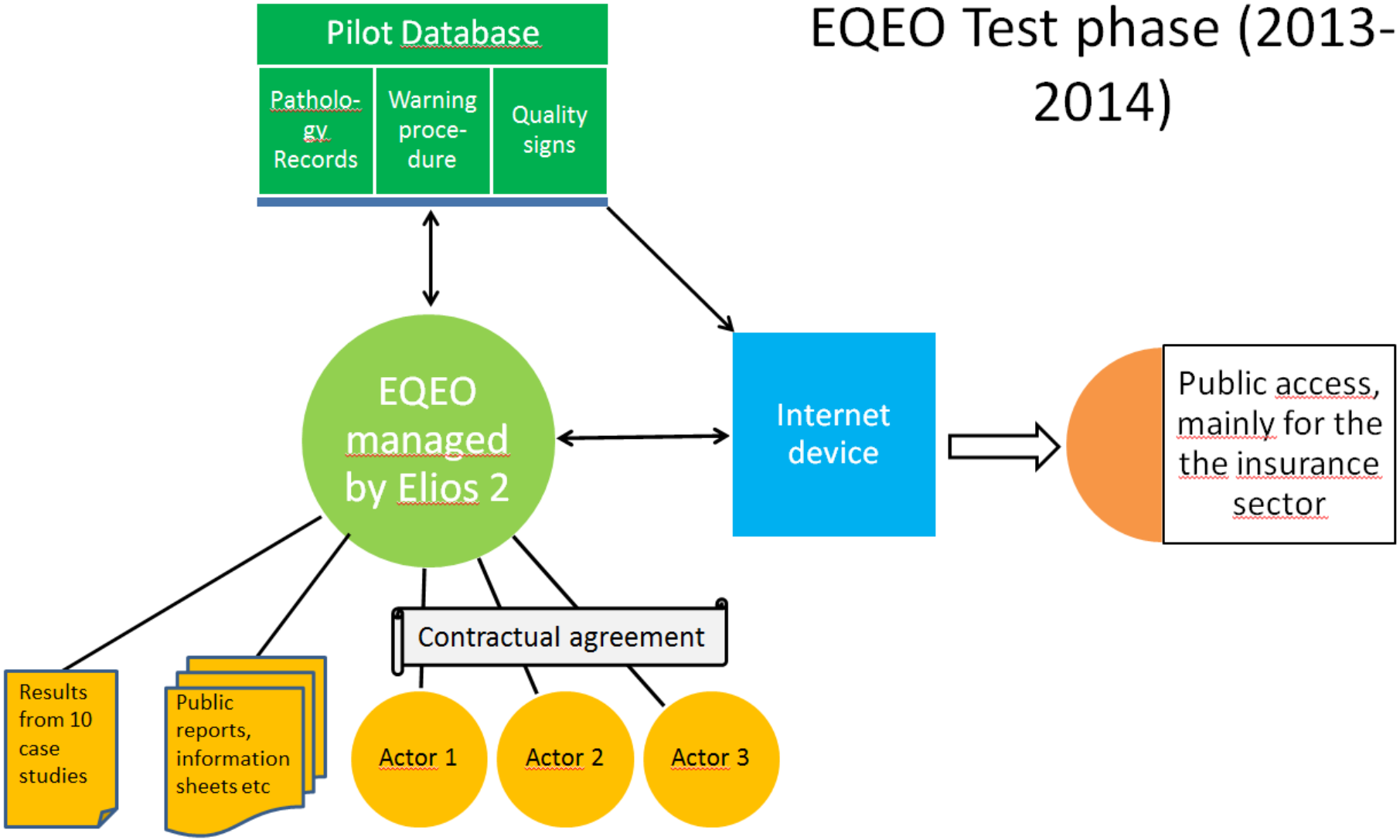
Fields of the database

Type of eco-technology (material/product/system) that was involved in the defect/failure	
15	Category
16	Specific type
Description of the defect/failure	
18	Type of defect/failure
19	Defective/damaged part
20	Description of the consequences/effects of the defect/failure
21	Was the defected product repaired or replaced?
Causes of the defect/failure	
22	Has the cause of the defect/failure been analysed, or is it known?
23	If yes, what has been the cause (global or in detail)?
Quality signs related to the defect/failure for the product/material/system in place at time of construction	
23	Type of quality sign related to the defect/failure
24	Name of quality sign
25	Is the contractor/installer specialized in that technology?
Lessons learned	
26	How to avoid or prevent the defect/failure (lessons learned, prevention measures)

Next steps

- Continuation of the data collection with questionnaire
- Describe existing data sources and databases on building pathology, their business models and organisation.
- Defining the informatics requirements for the development of the database (on the basis of the specifications given in Annex 3).
- Further exploring the information needs by insurers for the EEQO, in collaboration with WP3.

EQEO Test phase (2013-2014)



Relationship between risk management by an insurer and building pathology