

# CHANGES - kickoff meeting

Investigation on efficacy of  
maintenance practice in Belgium



20 years Monument Watch Flanders  
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# Improving the technical quality of interventions on built heritage through the optimization of the effort and knowledge of the stakeholders

1. Research objective and research methodology
2. The integration of this research and CHANGES project



# Research objective

The need to better understand the factors that in current practice are influencing the technical quality and durability of interventions.

Short-term assessment of the technical quality after execution

Technical durability of interventions in the long run

literature



current practice



state of the art on quality management of cultural heritage



study of quality management in other sectors



quality management approach for cultural heritage sector



validation of quality management approach  
based on case studies

# The goal and means of a quality management approach for cultural heritage

## Assessment

*Value assessment*  
understanding the cultural  
significance

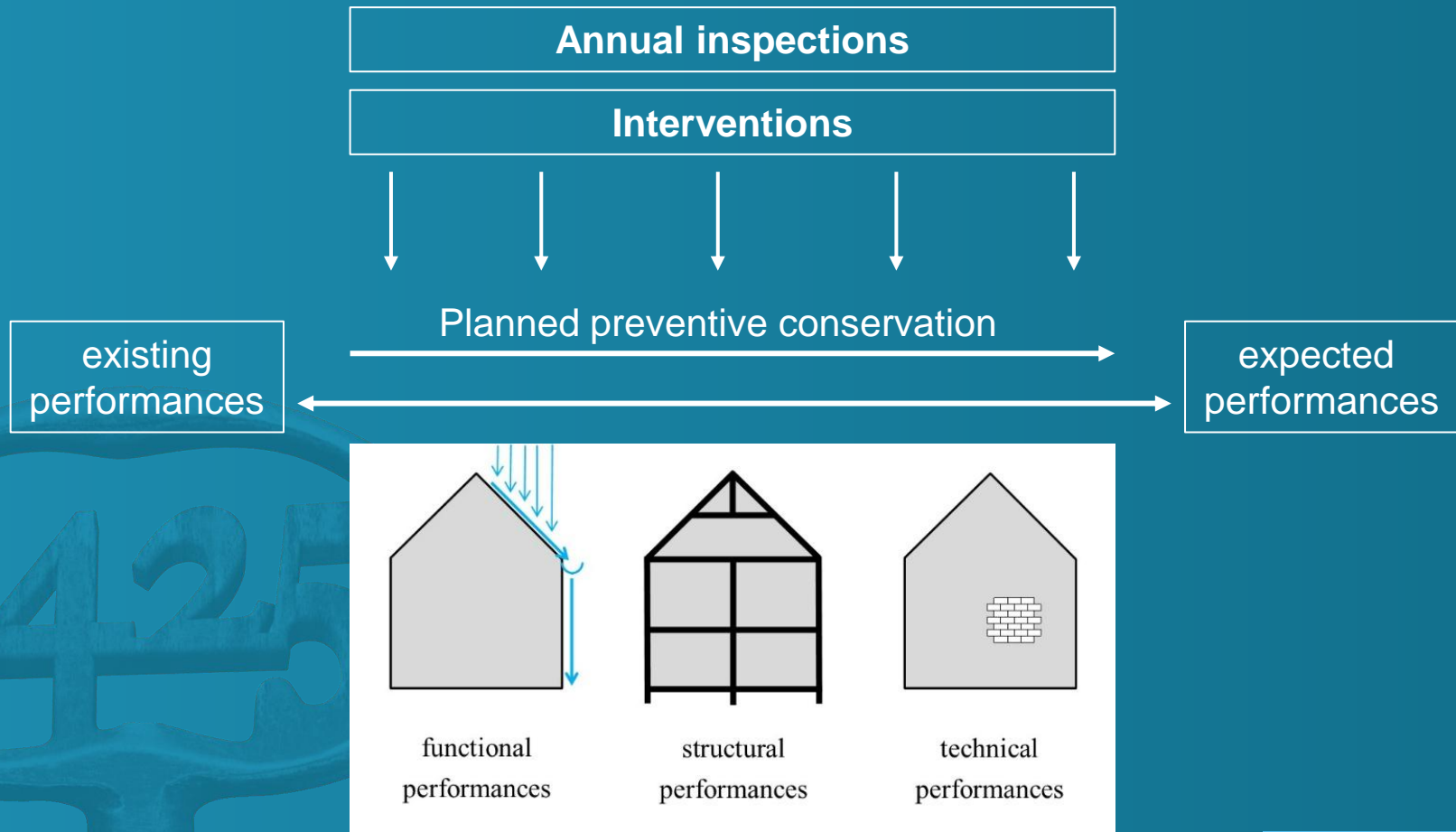
*Condition assessment*  
understanding the state of  
conservation

Planned preventive conservation



Preservation  
of  
cultural significance

# The goal and means of the quality management approach: technical viewpoint



literature



current practice



state of the art on quality management of cultural heritage



study of quality management in other sectors



quality management approach for cultural heritage sector



Tool for  
assessment of  
performances



Tool for  
assessment of  
technical quality  
after execution



Tool for  
assessment of  
technical durability  
in the long run



Insights in the role  
of stakeholders for  
the implementation  
of the management  
approach

# Investigation on efficacy of maintenance practices in Belgium

1. study maintenance problems of historic buildings (listed and non-listed)
2. understand monitoring and reporting (Monument Watch)
3. understand the types of interventions that have been performed in the past
4. evaluate the effectiveness, the durability and the cost of these interventions
5. understand the skills and knowledge involved in this process



literature



current practice



state of the art on quality management of maintenance

07/2015 – 08/2015



factors that influence the efficacy of maintenance practices in Belgium

09/2015



selection of cases

2 regions

*urban (Mechelen) – rural (South-East of Limburg)*

4 functions

*1) business & catering, 2) church & chapel, 3) residential, 4) lack of occupancy*

10/2015 – 09/2016

cases

2 regions

*urban (Mechelen) – rural (South-East of Limburg)*

4 functions

*1) business & catering, 2) church & chapel, 3) residential, 4) lack of occupancy*

### **general level of detail**

32 cases

1. general condition assessment (public accessible areas)
2. analysis reports Monument Watch
3. analysis records of interventions
4. general survey (stakeholders)
5. maintenance cost analysis service

10/2015 – 01/2016

### **detailed investigation**

8 cases

1. detailed condition assessment
2. analysis reports Monument Watch
3. analysis records of interventions
4. in-depth interviews (stakeholders)
5. assessment of current performances
6. definition of expected performances

02/2016 – 09/2016

# Cases: focus

1. functional performances: drainage system
2. structural performances: roof structure
3. technical performances: repair of pointing mortar

