1. HERITAGE
2. EXPERIENCE IN WALLONIA …

- Wallonia?

900km Highways
7000km Regional roads
71 000km Local roads
• Questions
  – Where?
  – What kind?
  – Which condition?
3. HOW TO CHARACTERISE?

• **Which tools?**
  
  – 1793-5 and 1793-6: in situ characterisation
  
  – Structural and material inspections
  
  – Fast visual checks

• **Why?**

• **Goals?**
  
  – Define « Health indicator »
  
  – Easy and complete tool
  
  – Objective analysis

• **How to do that?**
  
  – Development of methodology
  
  – Experience of directory in inspection of bridges
4. METHODOLOGY OF INSPECTION

- 3 main-documents
- 1 report
• From the report to the « Health indicator »

- **Structural and stability aspects**
- **Acoustical aspects**
  - Absorbing materials
  - Sound insulation
- **Settings of elements**
- **Visual aspects**
  - Rust
  - Gap between elements
5. HOW TO DEAL WITH THE OLD DEVICES?

- **Results**
  - 60km noise barriers

- **Question 1 : Health ?**
- **Question 2 : Protection enough ?**
• Crossing databases

42% 58%

Restore Upgrade

Noise barriers database Noise maps Hotspots
• **Overview**
  
  – Budgetary needs
  – Scenario
    
    • **5 years**: « A-B » → « A »
    • **10 years**: « B » → « A »
    • **15 years**: « B-C » → « A »
    • ...
6. HOW TO DEAL WITH THE NEW DEVICES?

- Technical requirements
- Factory auditing
- Verifications
  - When?

- Directly after installation
- Before end of garanty period
- Periodical inspection
7. CONCLUSIONS AND FUTURE PERSPECTIVES

- **Management**
  - Overview
  - Restore or upgrade
  - Health indicator
  - Budgetary needs

- **Verifications**

- **Technical requirements**
  - Know your past to build the future

- **Future**
  - Verification
  - In situ measurements
Thank you.