|                 |                 | Monitoring and evaluation         |       |                        |        |       |  |              |  |
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|                 |                 | ENDURANCE European S.U.M.Pnetwork |       |                        |        |       |  |              |  |
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#### Dear reader,

Regular monitoring, review and reporting is one of the seven principles for SUMP set by the European Commission in the Urban Mobility Package. In this e-update we will explore the phases of the sustainable urban mobility planning (SUMP) process in which monitoring and evaluation are needed. We will show examples from the ENDURANCE cities and include useful tools and documents, especially from the NISTO project that recently came to a close.



ENDURANCE experience exchange session in Barcelona

## The final months of ENDURANCE

It is only three months until the end of the ENDURANCE project. It now has 296 activated cities online! This proves that the multi-angle support that we provide to the cities – through network meetings, trainings & workshops, policy transfers and on demand expert-delivery services is a success. This is largely thanks to our 25 national focal points (NFPs) who tailored that support to the local and national needs. The information of each ENDURANCE city can now also be downloaded as a PDF file.

**Our Portuguese NFP** is the 'uncrowned' **number 1 in SUMP awareness raising**: 28 cities have started to or have improved their SUMP. Since 2015 there is a new dynamic for the development of PMT/ SUMP as a result of the requirement included in the Partnership Agreement between Portugal and the EC 2014-2020. It conditions the financing of urban mobility measures and actions to the prior performance of PMT/ SUMP. Short two page report here.

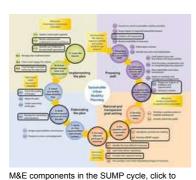
On the ENDURANCE agenda:

- Last January, ENDURANCE co-organised an international exchange session with representatives of five European metropolitan areas, namely Barcelona, Helsinki, Frankfurt Rhine-Main, Greater Manchester and Copenhagen.
- On 4 March, the Norwegian Roads Administration organised a training session in Oslo on the proposed urban strategy for the upcoming White Paper on long-term national transport plans (2018-2029).
- On 23 March, our Belgian network BEPOMM organises a site visit to Verviers and Liège, two example cities featured in this SUMP publication (link in French) by the Walloon Region's administration.
- We will present our final results in our next e-update and at the SUMP conference in Bremen on 12-13 April. Register now for the conference >

## What do the SUMP guidelines say about monitoring and assessment?

Monitoring, assessment and evaluation reoccur in many steps of the SUMP planning cycle, as described in the European SUMP Guidelines (available in 9 languages):

- · Self-assess current planning practices (Step 1.3)
- Analyse the current mobility situation (3.1.)
- · Develop scenarios and appraise their effects (3.2)
- · Develop measurable goals (5)
- · Assess effectiveness and value-for-money of measures (6.1, 6.3)
- Plan monitoring of both process and implementation (8, 9.1)
- Monitor and manage quality (10.3)
- Evaluate and learn (11.2, 11.3)



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# Monitoring, assessment, evaluation: a wide range of different activities

The terms monitoring and evaluation are often mentioned in one breath and many people do not realise the difference between these two terms. We will provide our interpretation, also of other evaluation-related terms and some examples of projects and tools to illustrate them.

#### Monitoring

= Regular measurement of indicators to track progress towards goals.

A systematic and more or less continuous data collection is the basis. The timely interpretation of the data – the evaluation – shows whether you're on track or whether you have some undesirable developments. The recently started Horizon 2020 project CREATE aims to describe the policy evolution cycle over a period of at least four decades for several of its cities to also show how they reached "peak car". Such a systematic collection of data is rare.

Most ENDURANCE cities provided their modal split, some of them have longer timelines of these recordings (e.g. Vienna and Graz). It is all available on TEMS, the EPOMM modal split tool.

An interesting way to collect data for more specific aspects of the mobility situation, is through the use of smartphone apps that track user behaviour. Examples are RouteCoach in Leuven, Belgium, the B-TRACK-B project and the Bicycle Counting App in Flanders and The Netherlands. The Cycling365 app used during the European Cycling Challenge also gathers data on cycling for the local transport planners. The raw data coming out of an app are not easily interpreted. The NISTO project developed some "Guidelines to convert sensor data from smartphones (e.g. GPS) into indicators that can be used in the evaluation".

#### Evaluation

= Systematic determination of measure's merit and significance during and after implementation.

While the difference between monitoring data and evaluating data may be quite obvious, it is more difficult to distinguish the two when it is about process or more general terms like outcome or output. A good overview over the differences between monitoring and evaluation are provided in this Genuine Evaluation blogpost.

Evaluation is part of a continuing management process consisting of planning, implementation, and evaluation; ideally each substituting the other in a continuous and simultaneous cycle until successful completion of the measure. Evaluation tells you how much and why you deviate from your goals and what you can learn from it.

#### Related term:

 ex-post evaluation: A final evaluation after a certain period has passed since the completion of the project in order to determine its effectiveness and sustainability.

#### Assessment

= Judgement of a system, process or person's performance, strengths and weaknesses.

The SUMP process usually begins with a **self-assessment** of current planning practices. ENDURANCE developed a **self-assessment** questionnaire for its cities to help them identify their main needs for support. The questionnaire was also filled in by the ENDURANCE national focal points, to provide a **peer review** of the city's SUMP status by an objective outsider.

#### Related terms:

- Quality management systems: are designed to assess organisational processes and offer guidance on how to improve them. Often combined with an audit. Examples include MaxQ for mobility management, EcoMobility SHIFT for the performance of urban transport, ISEMOA for policy-making on accessibility of public space and public transport, and the Common Assessment Framework for public management in general.
- Audit: assessment of compliance with a set of standards or legal requirements, carried
  out by an external expert and resulting in a certificate. Examples of audits are QUEST
  and ADVANCE for SUMP, and BYPAD for cycling policies.
- **Benchmarking:** comparison of assessment results between projects (see for instance EPOMM's MaxEva database) or between municipalities (again see TEMS). On the Dutch Sustainability Score municipalities' mobility performances are ranked according to ten criteria.

#### Appraisal



Source: Active Access, www.eltis.org





cellent

Poor



The city of Maia, Portugal

= judging the value and importance of a measure or project – in the context of monitoring and evaluation this judgement is made before implementation, in order to be able to make an informed choice between different potential measures. This is also called **ex-ante** evaluation.

### (see also our e-update on smart packages of measures and the Konsult database).

When the goals of a SUMP have been determined, the city has to select a suitable set of measures. For this, it needs to "appraise" the measures, which means to find out which measures have the most potential to realise the goals. An example: the ENDURANCE municipality of Maia, Portugal, had a municipal Technical Working Group and a Monitoring Commission composed of external entities to carry out monitoring and evaluation. For the exante evaluation they developed different scenarios for the evolution of the mobility system through the technique of backcasting. Starting from the goals to be achieved in the future in terms of modal split and environmental impacts, the set of measures was adjusted so that they would lead to the achievement of these goals. A multi-criteria analysis was performed to choose between scenarios.

Bremen, Germany, winner of the European SUMP Award 2014 for monitoring in SUMP, had three rounds in its ex-ante evaluation: an analysis of strengths, weaknesses, opportunities and threats (SWOT), a scenario analysis of five 'extreme choice' scenarios, and a costbenefit analysis in collaboration with an external expert. The best scenario turned out to be the promotion of active mobility. (Source: Eltis, see also the case studies of the other finalists Ghent and Dresden, and special jury prize winner Thessaloniki)

Related terms:

- Cost-benefit analysis (CBA), social cost-benefit analysis (SCBA): several different assessment methods were reviewed by the NISTO project.
- multi-criteria analysis (MCA): deliberate weighing of multiple criteria, such as costs, economic benefits, but also quality of life, health gains, acceptability, difficulty of implementation, etc. MCA is the most used appraisal method according to the NISTO stakeholder survey. The MaxExplorer on the EPOMM website and the NISTO Evaluation Toolkit offer a multi-criteria analysis.

## A challenging task for cities and municipalities

The NFPs of the ENDURANCE project have detected many challenges for local authorities related to assessment, monitoring and evaluation in SUMP.

Cătălin Frangulea, the SUMP Coordinator of the ENDURANCE city Brașov in Romania for instance reports about **lacking mobility planning and evaluation expertise** within local authorities. Technical staff need to know exactly what to ask and expect from the consultants, and, even more importantly, these staff need to be able to make good use of the products – the monitoring and evaluation results – as delivered by such consultants. The data can be obtained with a little effort, but the capacity to process the data is lacking.

Our Austrian NFP, the Austrian Energy Agency, observed that local **transport and mobility plans rarely include monitoring and evaluation measures**. And even then, it typically does not follow a systematic approach but is based on individual requirements. Therefore monitoring and evaluation was a central focus in the guidance and workshops offered by ENDURANCE in Austria. The city of Vienna is one good example of an ongoing monitoring process and key policy evaluation studies to underpin the city's Urban Development Plan (STEP2025). Read more >



Tallinn, Estonia

Our NFP in Estonia says the **costs of surveys can pose a barrier**. ENDURANCE supported the development of a detailed travel survey methodology for the Tallinn and Tartu region within an expert group at the Estonian Ministry of Economy and Communications. However, a first public tender failed, because the costs of the survey were higher than anticipated. Eventually, a more narrow travel survey, including household travel diaries of 4000 Tallinn residents, was carried out November-December 2015 and will be made available as open data. Both Tallinn city and the national government co-operate well together to find funding for the surveys, for instance via Interreg.

Norwegian research on the evaluation of transport infrastructure projects shows that substantial resources are devoted to improving appraisal methods (cost estimation techniques, transport models, consumers' valuation of the effects, etc.) and that most countries have guidelines for Cost-Benefit Analysis. Ironically, the amount of resources used for ex ante evaluation is rarely matched by the resources used for ex post evaluations." (Ex post evaluation of transport projects – experiences from Norway)

A further important part of appraisal is the different (conflicting) opinions of stakeholders. Citizen and stakeholder involvement is a central element of the above-mentioned strategy of SUMP award winner Bremen. It is also an essential part of the NISTO toolkit that helps users to identify synergies and disagreement between different stakeholder groups. "Involving stakeholder groups in the evaluation process and using monitoring data to inform the public are of growing importance but seen as difficult and potentially prone to pressure from interest groups," writes the CH4LLENGE consortium in their paper Why is monitoring and evaluation a challenge in sustainable urban mobility planning?



The city of Brasov, Romania



Source: www.eltis.org

### **Conclusion and recommendations**

Monitoring and evaluation is important: for accountability (did we get value for money?), better decision making, optimisation along the way, benchmarking, proving success – and sometimes – showing the reasons for failure. Monitoring and evaluation should be an integral part of project management.

As monitoring and evaluation is often neglected, we provide some tools and information we recommend to use.

- The monitoring and evaluation part in the SUMP guidelines provides the context for monitoring and evaluation in SUMP.
- CIVITAS offers its extensive 179-page guide 'Evaluation matters'
- · MaxSumo is a practical guide for an evaluation that includes the process
- MaxEva is an evaluation database and evaluation tool for mobility projects , based on MaxSumo, both provided by EPOMM
- This short guide from NISTO provides examples for selecting targets and fitting indicators.
- To select and then appraise measures, many criteria can apply. Several tools are offered:
  - The KonSult Database provides easily selectable policy instruments. Their description and multi criteria analysis (MCA) has been completely updated by the CH4LLENGE project. Per policy it offers in depth description, examples, references.
  - EPOMM provides the MaxExplorer, a tool that based on a quick background scan offers a range of measures, to which a multi-criteria analysis can be applied.
  - Finally NISTO offers a transparent, but elaborate in depth MCA based on 16 sustainability criteria grouped under economy, environment and society, that can be individually fine-tuned.
- The CH4LLENGE project developed a self-assessment for the whole SUMP-process.
   Find the tool here (login-needed) and a short introduction here.
- CH4LLENGE also has its key outputs available for download in 9 languages, among them the monitoring and evaluation part. They contain a quick-facts brochure, as well a comprehensive manual. Find everything here.
- Some background on cost benefit analysis:
  - EVIDENCE project reader Cost benefit analysis current practice in the EU
  - International Transport Forum: Understanding the Value of Transport Infrastructure -Guidelines for an international comparative measurement of spending and assets and as example: Appraising Transformational Projects - The Case of the Grand Paris Express and finally as recommendation: Improving the Practice of Cost Benefit Analysis in Transport

## **Upcoming events**

- 3rd European Conference on SUMP 12-13 April 2016 – Bremen, Germany www.eltis.org
- SWITCH Final Conference
   14 April 2016 Bremen, Germany
   www.polisnetwork.eu
- 20th European Conference on Mobility Management 1-3 June 2016 – Athens, Greece www.ecomm2016.com

For more events, please visit the EPOMM Calendar.

