



A European Union Agency

Resilience Metrics

ENISA's activities on how to quantify network resilience, which are the relevant metrics and measurement frameworks.

ENISA is working on the measurement frameworks and metrics for resilient networks and services. This belongs under the broader umbrella of network resilience.

In this area of activities ENISA launched in 2010 a study on *Measurement Frameworks and Metrics for Resilient Networks and Services*. The methodology included both a survey, a desktop research and further consultation through a Workshop. The overall work is also summarised in this video.

The outcome of the study includes two reports.

The first is a report on Challenges and Recommendations in the area of resilience metrics that included the results of the survey. This document presents the results of that study and aims to provide a non-technical overview to policy experts in the area of resilience. The key challenges to resilience measurements and the most interesting aspects of the answers received are summarised and analysed in this document. This report also summarises a number of recommendations arising from the analysis of the information received.

One of the main recommendations from the stakeholders is to build in the community a **common understanding and good practices or standards** for resilience metrics. This will enable different parties to speak a common language. Information and best practice sharing will benefit, as will the adoption rate of the resilience measurements discipline.

The second report represents a first step towards addressing this recommendation. This is a technical report that tries to holistically review the area, the existing frameworks and models, the classification of metrics, and the baseline metrics. We believe that this work still has a long way therefore we have published the Technical Report as a discussion paper in order to initiate the discussion and gather more and more feedback from the community. ENISA will continuously try to improve it based on feedback received, publications and public presentations to the relevant communities.

Some of the future items that ENISA will work on in the area of Resilience Metrics and Measurement Frameworks include:

- Address some the recommendations of the report.
- Further develop the models, the classification and the list of baseline metrics in the Technical report.
- Look into issues on overall resilience assessment.