

Overview of the Knowledge Base

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www.amitran.eu


Amitran

The Amitran logo consists of a stylized graphic of a horse's head in profile, rendered in white, blue, and yellow, positioned above the word "Amitran" in a white, sans-serif font.

Introduction

- Why Knowledge Base?
- Employed technologies
- Intended usage scenarios
- Overall structure
 - Background knowledge
 - Scaling up

Why Knowledge Base?

- “Database” was the original approach
- Flexibility needed – support for research and documentation
- Structure easy to change
- Tracking of changes
- Free access to consume the knowledge
- Registered contributions
- Envisioned as a “CO₂ Assessment Information Hub”
- Avoids duplication of existing information and data
- Refers external data sources

Employed technology - Mediawiki

- Mediawiki software package
- Popular wiki application
- Open source
- Active community
- Proven reliability (Wikipedia – best known Mediawiki site, with tens of thousands of active contributors)

Usage scenario

- Browsing of contents is “free for all”
- Intends to disseminate the project outcome
- Offers support to the engineers of the methodology to document their work and share it with the research community
- Only registered users may contribute
- Activity of contributors is tracked.
- All versions of the content are stored and can be viewed
- Intrinsic support for content moderation.
- Structure is meant to evolve, as it is the content

Overall structure of the Knowledge Base

- Building block: “the page”
- Pages can be grouped into categories
- Most valuable resource: the references
- Same page is referred from different other pages (so that the knowledge is logically linked) – a “knowledge graph” emerges
- Page categories are structured in a tree structure themselves . This facilitates the maintenance of content, review assignments, structure evolving

Structure - continued

- There are 9 categories (at the moment), structured into 4 levels (Amitran, CBA, Framework, Guidance Tool, Methodology, Interfaces, Models, Scaling Up, Statistics)
- Holding over 300 pages of content
- The major subject is the scaling up step
- Context needs to be documented - a significant part of the content addresses the background (methodology, assessment framework, models, interface specifications)
- The scaling up is accessible through the context information. The user of the Knowledge Base is therefore prepared before "diving in the data"

Support for the scaling-up step

- The Knowledge Base needs to provide the user with statistical data
- The data is referred to and not copied locally
- Since the scaling up step can be approached in a multitude of ways, the scaling up content of the Knowledge Base is expected to evolve, driven by the actual user needs.
- European statistics repositories are the main data sources:
 - EUROSTAT
 - National Statistic Offices
- Other relevant projects are also considered: e.g. ETIS+
- The list is open!

Statistical Data

- EU-28 are considered
- Statistical data is being referenced for the following countries:
 - Austria
 - Belgium
 - Finland
 - France
 - Germany
 - Greece
 - Ireland
 - Italy
 - Netherlands
 - Poland
 - Portugal
 - Romania
 - Spain
 - Sweden
 - UK
- The list is open!

Referenced data

- Kilometres driven by road
- Kilometres driven by rail
- Kilometres travelled by passengers
- Tons of goods transported
- CO₂ emissions
- Other data considered relevant (may vary from country to country)

Country table

The data - Amitran Knowledge Base

amitrان.teamnet.ro/index.php/The_data

Most Visited XOR-Inbox Analiza&Proiectare Log On JIRA TNI IDDMedia Labs Baseca... EV

Toolbox

- What links here
- Related changes
- Special pages
- Printable version
- Permanent link

- Kilometres travelled by passengers, also by mode
- Kilometres travelled by goods (tons of goods by mode)
- Data referring to **auxiliary systems**
- Data referring to CO2 emissions

Each of the above categories have been investigated for the following countries. Each of the cells is a link to all the datasets pertaining to the respective country:

Austria	Belgium	Bulgaria
Cyprus	Czech Republic	Denmark
Estonia	Finland	France
Germany	Greece	Hungary
Ireland	Italy	Latvia
Lithuania	Luxembourg	Malta
Netherlands	Poland	Portugal
Romania	Slovakia	Slovenia
Spain	Sweden	UK
	Croatia	

The following statistic data repositories were used in order to assemble the target data sets:

- National Statistic Bureaus and Institutes
- Eurostat
- ETIS+

Country page

The screenshot shows a web browser window with the address bar displaying "amitrان.teamnet.ro/index.php/Finland". The page title is "Finland - Amitran Knowledge Base". The browser's address bar also shows a search engine set to "Google".

The page content includes:

- Navigation:** Main page, Community portal, Current events, Recent changes, Random page, Help.
- Toolbox:** What links here, Related changes, Special pages, Printable version, Permanent link.
- Page Actions:** Discussion, Read, View source, View history, Search, Go, Search.
- Finland:** The following data sources were identified for Finland:
 - [The National Statistics Bureau official site](#) section referring to registered vehicles, road and rail networks and traffic, goods transport by road, domestic and foreign waterborne traffic, air traffic and traffic accidents.
 - [LIISA 2012](#) Road traffic emissions site
 - [Eurostat](#)
- Data sets:**
 - Road kilometres driven in Finland
 - IWT and coastal kilometres sailed in Finland
 - Rail kilometres driven in Finland
 - Passenger kilometres in Finland
 - Ton kilometres in Finland
 - CO2 Emissions in Finland
- Category:** Statistics

At the bottom of the page, it states: "This page was last modified on 15 April 2014, at 13:56." and "This page has been accessed 19 times."

Data category detail page

The screenshot shows a web browser window with the URL `amitrان.teamnet.ro/index.php/Road_kilometres_driven_in_Finland`. The page title is "Road kilometres driven in Finland". The page content includes a table with the following data:

Context	Source	Link	Reliability	Other info
Total	Eurostat	link	High	Kilometers driven by Finnish vehicles.
Vehicle type	Eurostat	link	High	First use the + button to change the selection of vehicles, select all and update. Then use the dropdown menu to select vehicle type (not all vehicle types are available for Finland)

Below the table, the category is listed as "Statistics".