Laastutabloo / ODA – Open Data API
Masinism OÜ / Timo Toots / +372 5166992 / http://www.timo.ee

The project consists of two separate software projects where one depends on the other.

**Laastutabloo** (shingle display) is an interactive installation that will be permanently installed in the lobby of Estonian National Museum in the fall of 2018. It’s a wooden character display that has the look of old airport information screens. The display consists of 324 (27x12) characters that would be used to show information about life in Estonia. The content of the screen will be based on all possible open data streams that are available in Estonia. The data would be analyzed and organized by all Estonian villages, towns and cities. It will create a real-time information display for each Estonian area. For example the screen would show: departing buses (bus schedules), latest books taken from the library (RIKS), latest crimes (Police and Border Guard Board), newest buildings (Ehitisregister), forestry permissions (PRIA), population statistics (stat.ee), number of cows and pigs (PRIA) etc. The installation is capable of showing infinite number of data streams by algorithmic curation. Little video clip: https://www.timo.ee/laastutabloo/

The physical installation in ERM would be accompanied with an online version. The online version would have ability to choose the areas of interest (village or city) and display info only about that area. Also it would be able to choose the data streams of interest. The resulting web version is something local people can use to show what is going on in the village. It could be kind of thing to put on a big monitor in the lobbies of local governments etc. Also it would feature a voting and queuing system for the villages shown in ERM (people can vote which village will be shown next). Web version could be accompanied by a smartphone app.

**Open Data API** (ODA in short) will be the service that makes the Laastutabloo installation possible. At the moment all Estonian open data is scattered around the web in different servers and formats. ODA would be one API that would combine all Estonian open data into one point of access. It would download, format and cache the open data streams to create reliable online service to build other projects on top (like Laastutabloo). The problem with open data streams (both files and APIs) is reliability and inconsistency, ODA would have to tackle these problems by automatic versioning and quality control.

ODA would be built on top of CKAN software package as it’s a proven software for open data registries and used widely. Estonian open data portal (http://opendata.riik.ee) is also using CKAN to organize all open data sources in Estonia. The maintainers of the portal are interested in these new features and possibly in the future they will use ODA package to provide this kind of service publicly. Until that time we would be running a separate CKAN instance that would be synced to http://opendata.riik.ee.

We need to build these parts:
* Open Data API with all Estonian open data registries included.
* Laastutabloo data provider (takes data from ODA and creates text based representations). It would be used for physical display in ERM.
* Laastutabloo web version.

ODA software would be all open sourced. Laastutabloo’s source would not be published.