



**Experience from Finland  
Nornet LCA – 11.11.2015  
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# ILMARI – Lifecycle assessment service



- ILMARI is a web service for calculating building CO2 emission estimation
- First version of ILMARI launched 5 years ago - within last year, user database and people interest towards the service, have started to increase
- ILMARI service is made for use of building designers



**Ilmari - Login**

Username:

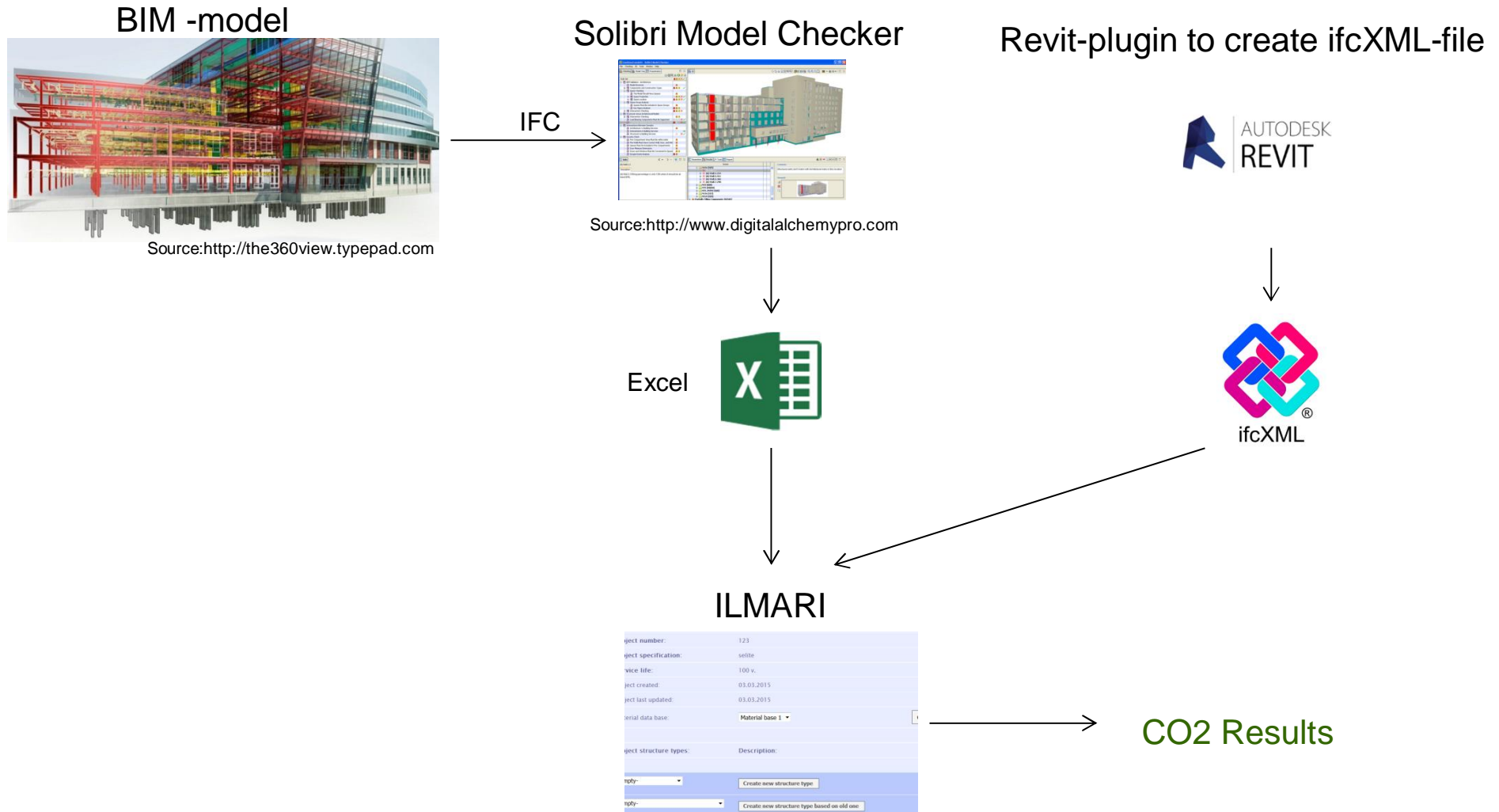
Password:

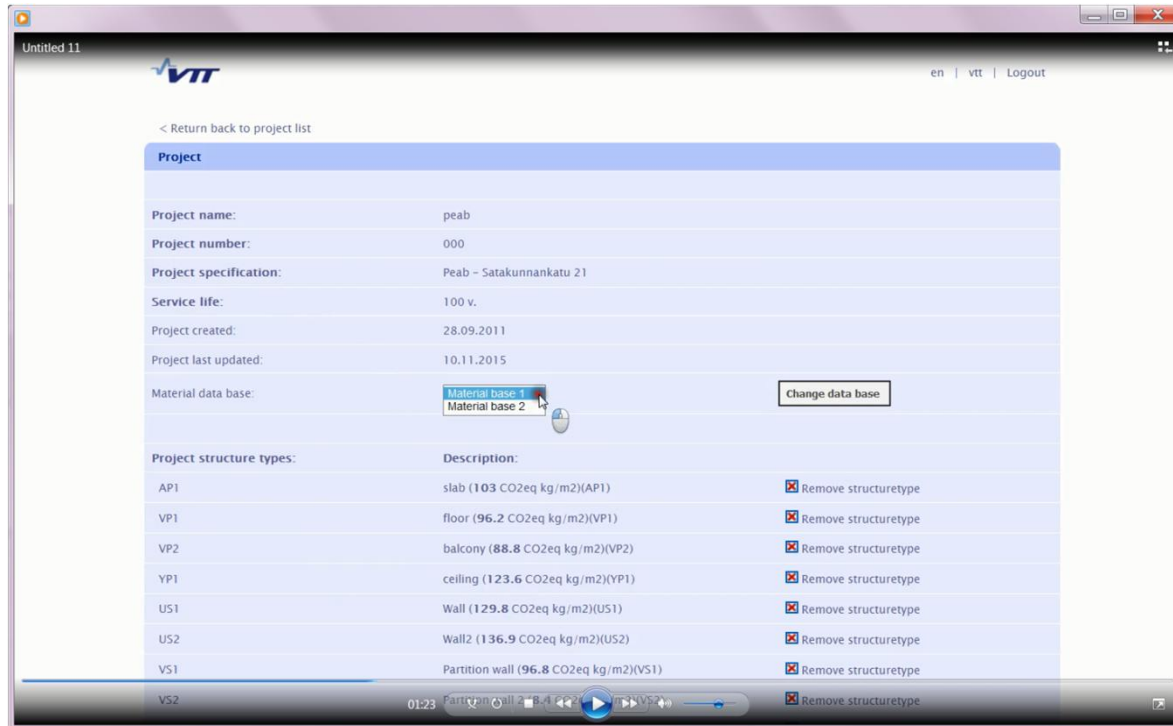
Language:  ▼

The development of the service was sponsored by



# ILMARI – Building CO2 calculation process





The screenshot displays the ILMARI software interface within a window titled "Untitled 11". The interface includes a VTT logo and navigation links for "en", "vtt", and "Logout". A link "< Return back to project list" is visible at the top. The main content is divided into two sections: "Project" and "Project structure types".

**Project Details:**

Project name:	peab
Project number:	000
Project specification:	Peab - Satakunnankatu 21
Service life:	100 v.
Project created:	28.09.2011
Project last updated:	10.11.2015
Material data base:	Material base 1 Material base 2

A "Change data base" button is located to the right of the material data base options.

**Project structure types:**

Project structure types:	Description:	
AP1	slab (103 CO2eq kg/m2)(AP1)	<input checked="" type="checkbox"/> Remove structuretype
VP1	floor (96.2 CO2eq kg/m2)(VP1)	<input checked="" type="checkbox"/> Remove structuretype
VP2	balcony (88.8 CO2eq kg/m2)(VP2)	<input checked="" type="checkbox"/> Remove structuretype
YP1	ceiling (123.6 CO2eq kg/m2)(YP1)	<input checked="" type="checkbox"/> Remove structuretype
US1	Wall (129.8 CO2eq kg/m2)(US1)	<input checked="" type="checkbox"/> Remove structuretype
US2	Wall2 (136.9 CO2eq kg/m2)(US2)	<input checked="" type="checkbox"/> Remove structuretype
VS1	Partition wall (96.8 CO2eq kg/m2)(VS1)	<input checked="" type="checkbox"/> Remove structuretype
VS2		<input checked="" type="checkbox"/> Remove structuretype

- In the future building CO2 calculation should be able to do easily at the beginning of the planning phase of the building.
- It would guide to design lower CO2 emission buildings. CO2 calculation should be implemented to the designing softwares.
- new version of ILMARI, with possibility to use it in english, will be relased end of the next week. If you are interrested to test use it, please sen email to: [mikko.tuomisto@vtt.fi](mailto:mikko.tuomisto@vtt.fi)







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