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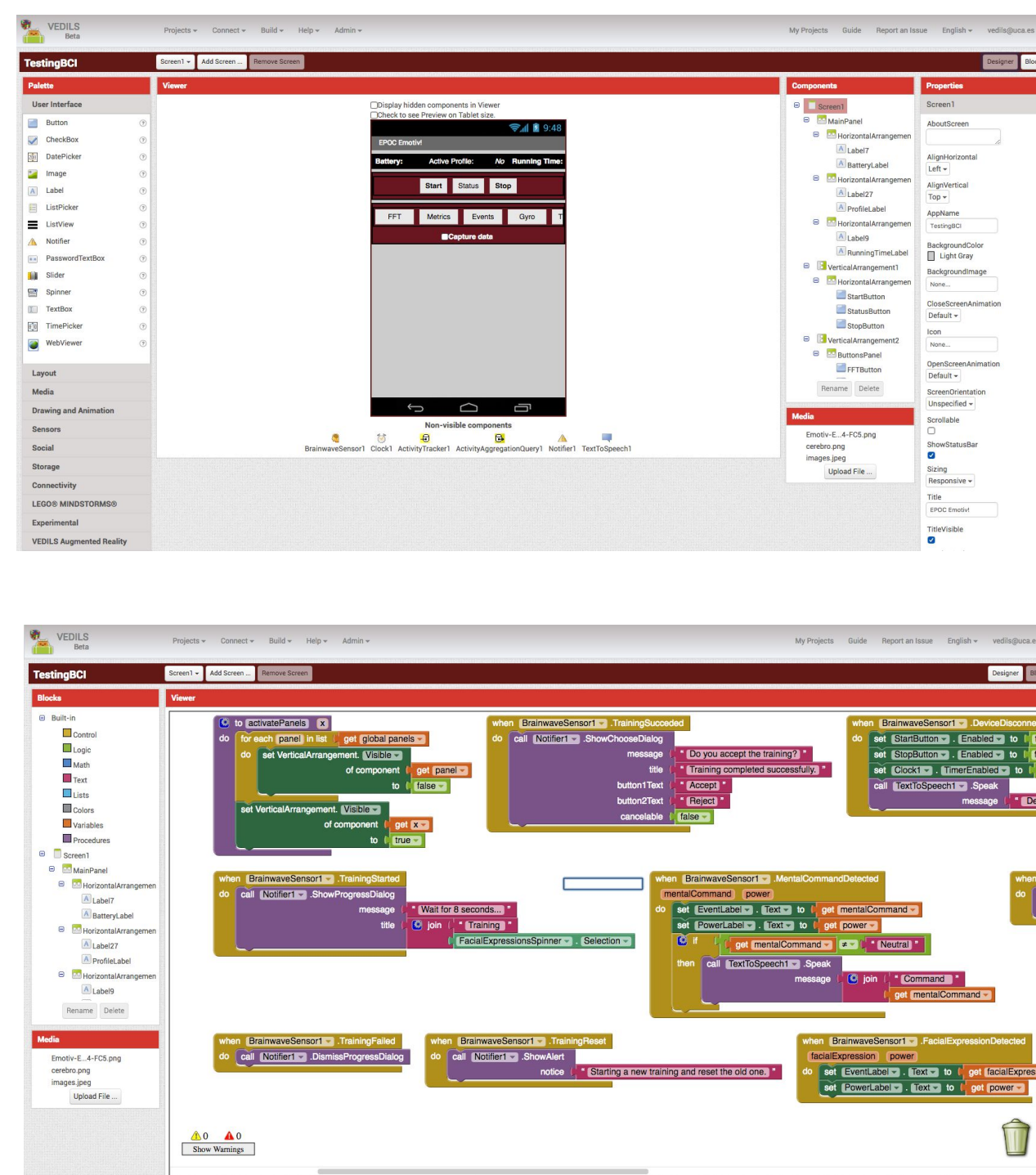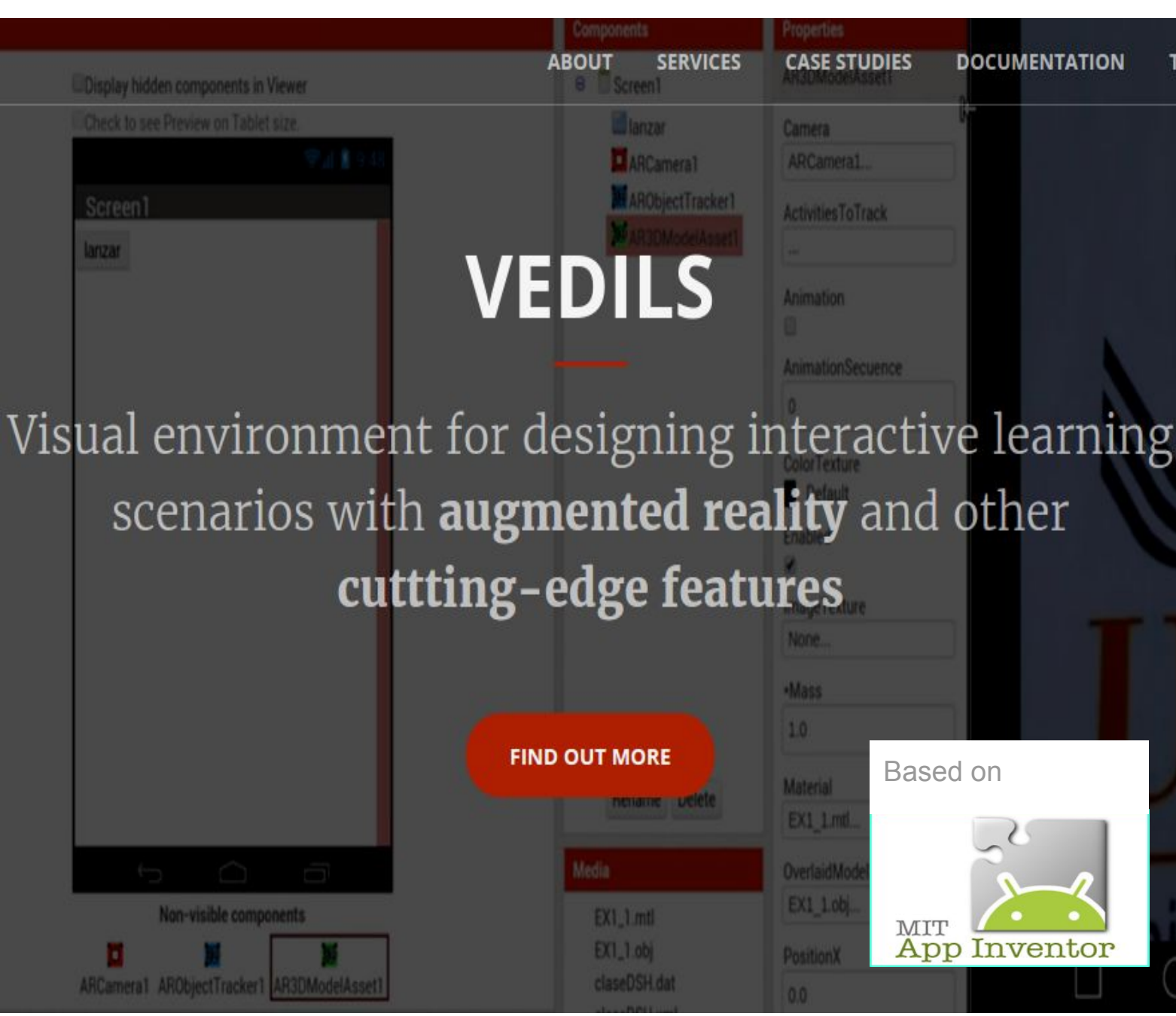josemiguel.mota@uca.es

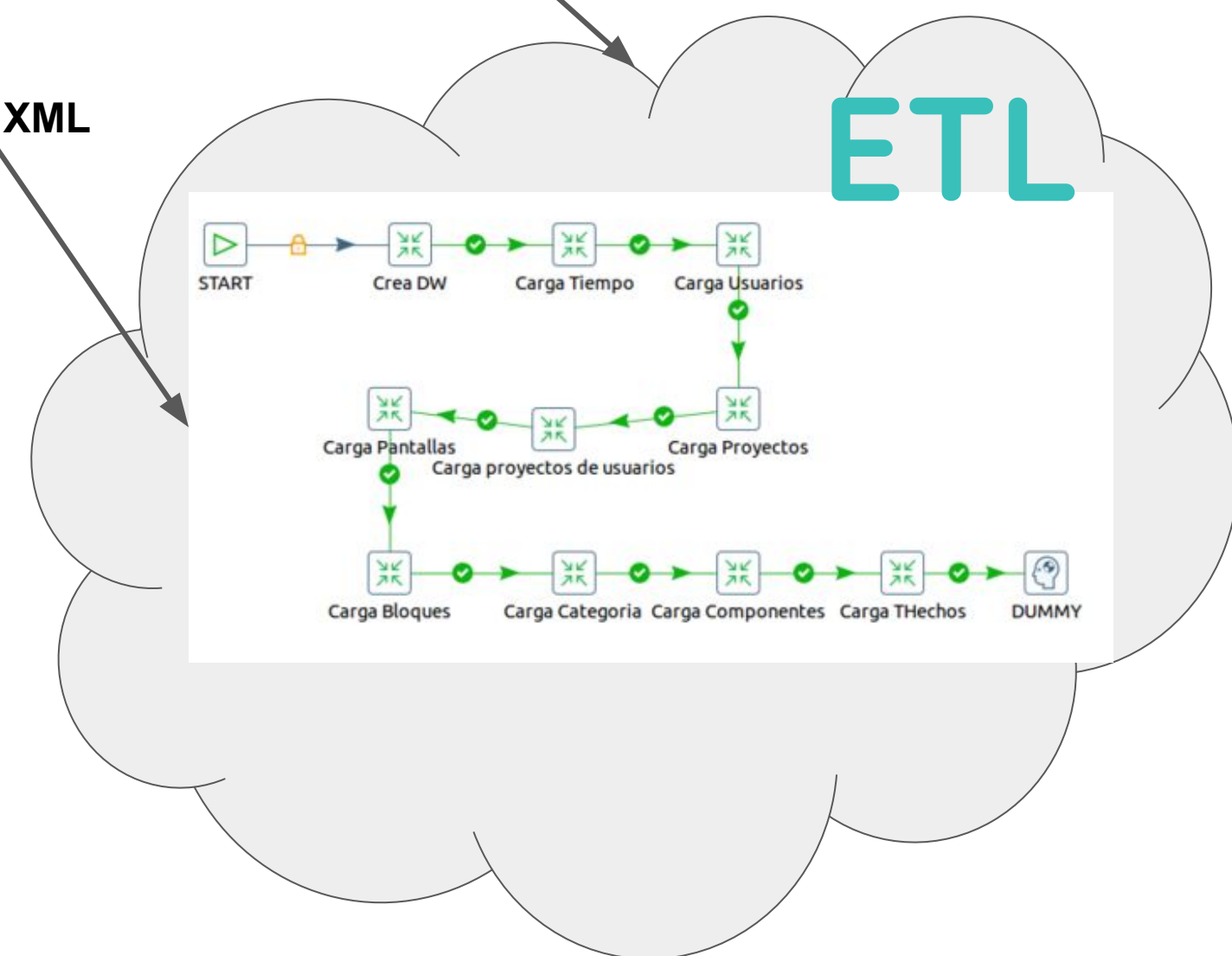# A BI platform for analysing mobile app development process based on visual languages

Abstract: VEDILS (http://vedils.uca.es) is an authoring tool based on App Inventor (MIT) for easily developing Android mobile apps. Using this tool, users without strong programming skills are able to design and build by themselves mobile apps. This tool provides a simple drag&drop view for designing the app's user interface and a programming language based on visual blocks to declare its behaviour. In this vein, some questions may arise: *how many blocks are using the users to define the behaviour of a simple app?; are they using procedures or functions in their programs? which are the components most used in their apps? how long do users need in average to develop the apps? how many builds and debugs perform the users while developing the apps?* who are the most active developers? With the aim of providing answers to these and other questions a business platform solution has been set up. This solution consists of a ETL data integration process for populating a datamart, a set of OLAP schemes for multidimensional analysis and a web dashboard. All these components have been designed using the Pentaho BI suite.
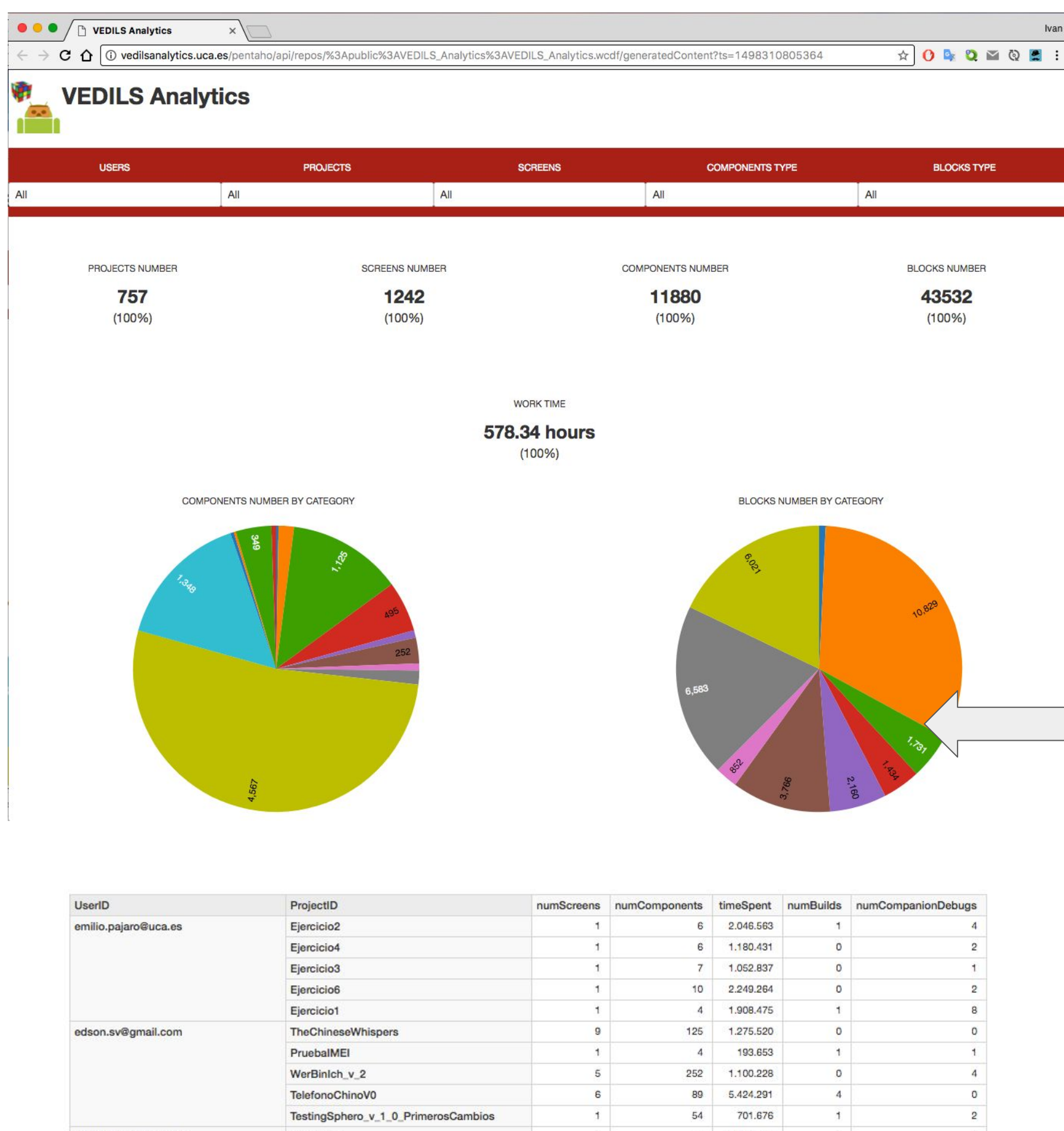
data source

pentaho

http://vedilsanalytics.uca.es/pentaho

JSON

XML

ETL

web dashboard

OLAP cubes

Datamart

SPI&FM
Software Process Improvement and Formal Methods group

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