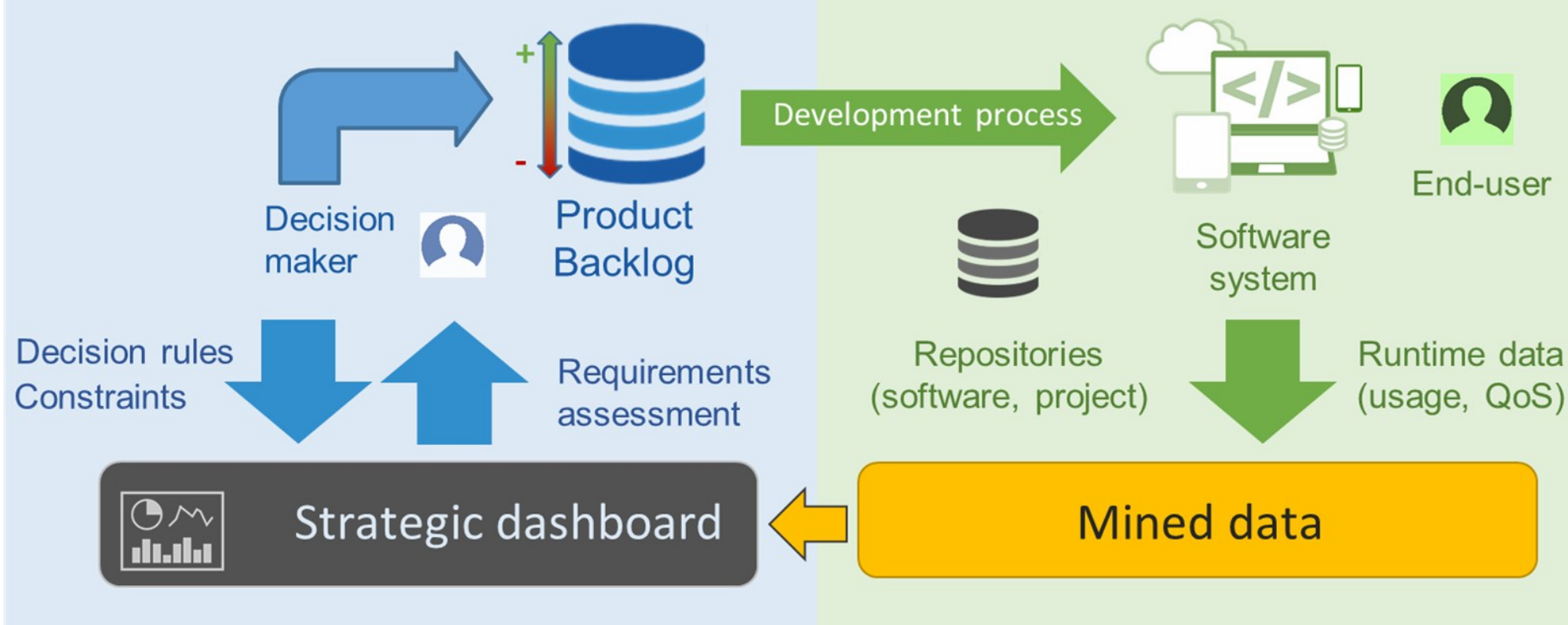




Supporting Decision-Makers in Managing Quality in Rapid Software Development

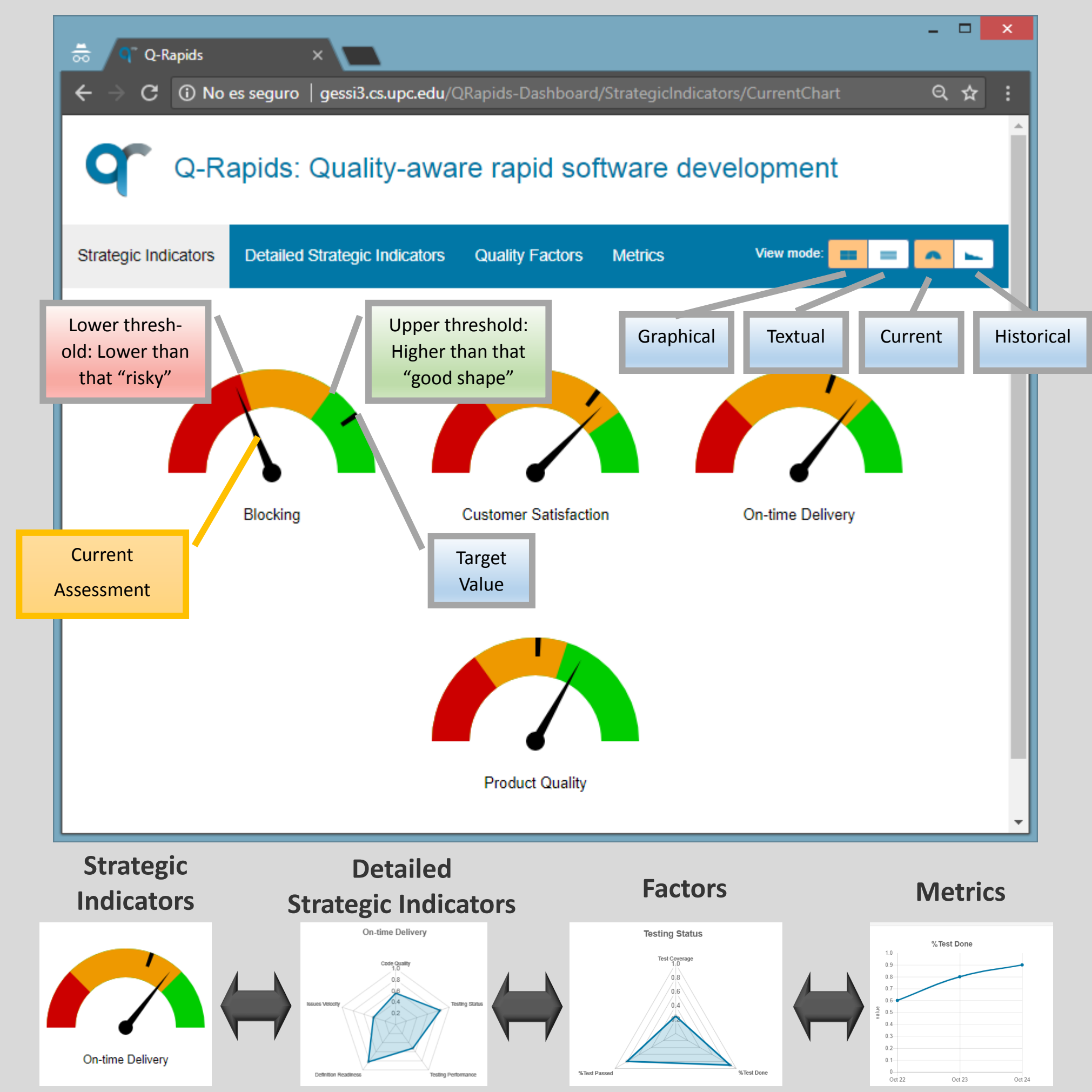
Q-RAPIDS FRAMEWORK



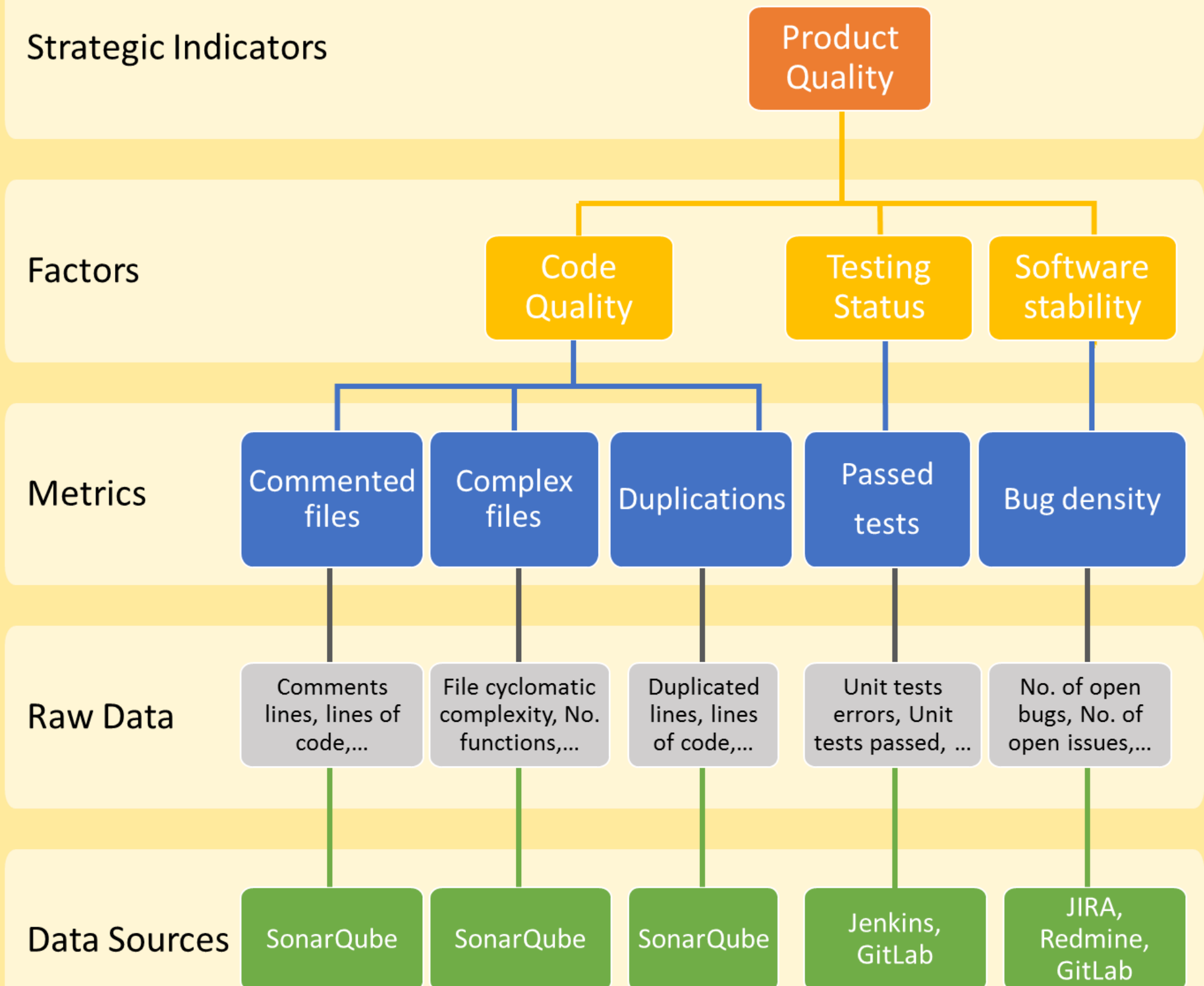
HETEROGENEOUS DATA SOURCES

- ◆ Project Management Tools
- ◆ Software Repositories
- ◆ Quality of Service
- ◆ Systems Usage

STRATEGIC DASHBOARD

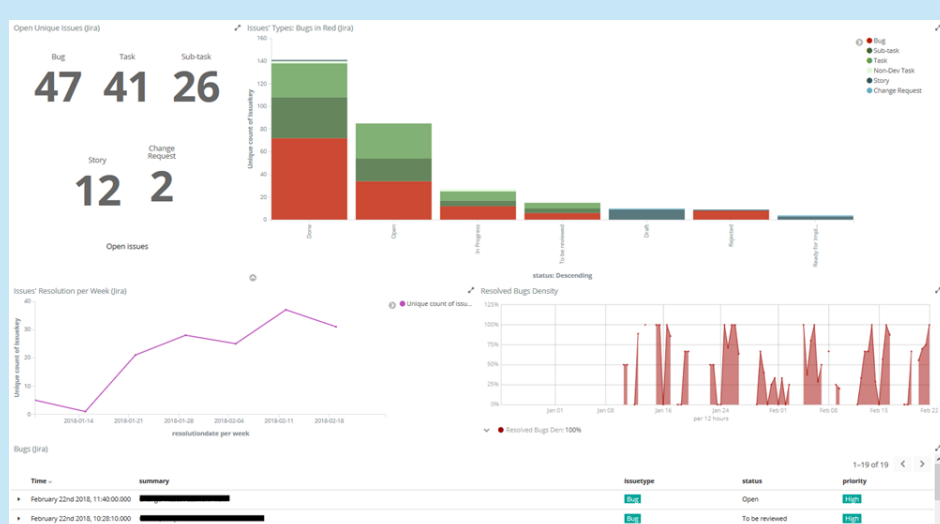


DATA ANALYSIS—QUALITY MODEL

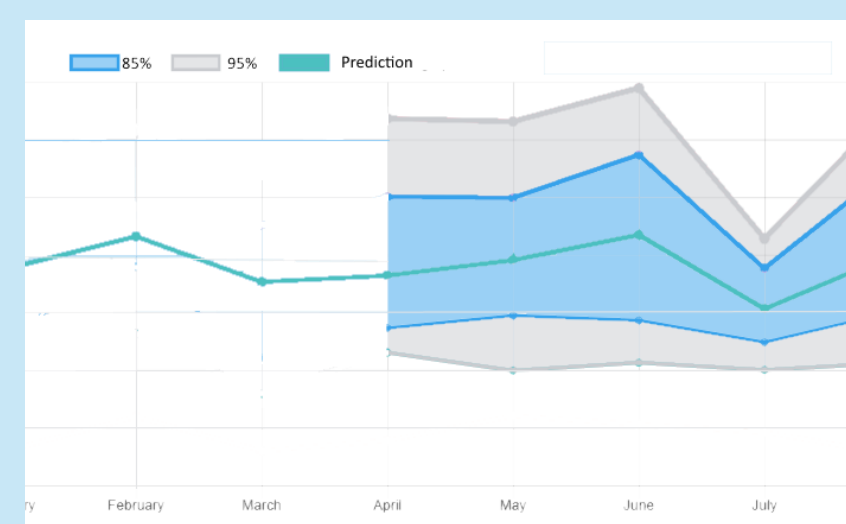


IMPROVEMENTS FOR NEXT VERSION

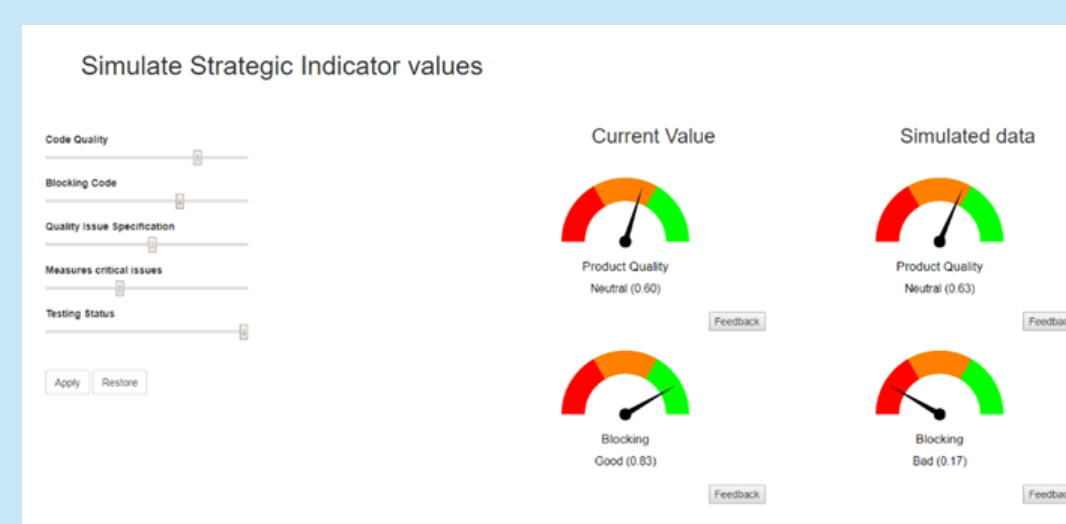
RAW DATA VISUALIZATION



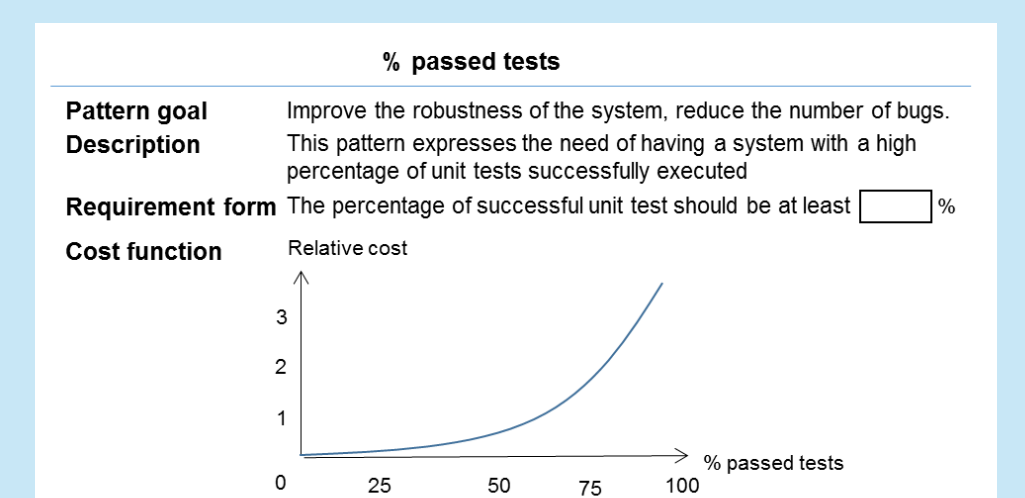
PREDICTION



WHAT-IF ANALYSIS



QUALITY REQUIREMENTS GENERATION



UNIVERSITAT POLITÈCNICA DE CATALUNYA BARCELONATECH

Lidia López
 Cristina Gómez
 Rafal Kozik
 Anna Maria Vollmer
 Andreas Jedlitschka

Silverio Martínez-Fernández
 Michal Choraś
 Liliana Guzmán
 Xavier Franch

Acknowledgments. This work is a result of the Q-Rapids project, which has received funding from the European Union's Horizon 2020 research and innovation program under grant agreement N° 732253.



Liliana Guzmán, Marc Oriol, Pilar Rodríguez, Xavier Franch, Andreas Jedlitschka, Markku Olvo, How Can Quality Awareness Support Rapid Software Development?—A Research Preview. In *Proceedings of the 23rd Conference Requirements Engineering: Foundation for Software Quality (REFSQ)*, 2017, pp. 167-173.

Franch, X., Gómez, C., Jedlitschka, A., López, L., Martínez-Fernández, S., Oriol, M., Partanen, L., Data-Driven Elicitation, Assessment and Documentation of Quality Requirements in Agile Software Development. In *Proceedings of the 30th International Conference on Advanced Information Systems Engineering (CAISE)*, 2018, pp.587-602.

Martínez-Fernández, S., Jedlitschka, A., Guzmán, L., Vollmer, A.M. A Quality Model for Actionable Analytics in Rapid Software Development. In *Proceedings of the 44th Euromicro Conference on Software Engineering and Advanced Applications (SEAA)*, 2018.