

Complex geometry

3D PRINTING

Innovation

Prototyping



An ITEA Smart industry project

SAMUEL



An intelligent platform for additive manufacturing

Project summary

The ITEA project SAMUEL (Smart Additive Manufacturing – an AM Intelligent Platform) leverages knowledge and experience in additive manufacturing (AM) via machine learning (ML) tools and a platform connecting AM suppliers with potential customers based on their manufacturing experience. This will increase AM accessibility while pushing down costs for both sets of users.



Consortium



Project duration

September 2019 - November 2022

Key results

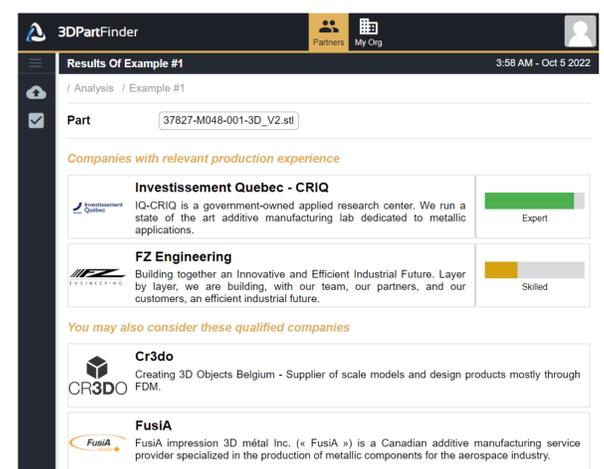
- **SAMUEL is a world-first:** no prior tools existed to leverage AM knowledge and experience within a user's organisation.
- ML models for build time estimation have achieved an estimation error rate <10% (and <5% for a significant number of cases).
- Improvements have also been seen in the AM process itself, with the design guidelines and sensor-based build monitoring contributing to a design error rate reduction of 67% and a manufacturing error rate reduction of ~20%.

SAMUEL Project webpage



<https://itea4.org/project/samuel.html>

3DPartFinder > partner search platform



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