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FACTS and FIGURES

Full name:	Future European Fuel Cell Technology: Fit for Automatic Manufacturing and Assembly
Acronym:	Fit-4-AMandA
Start date:	1 March 2017
Duration:	36 months
Total budget:	2.9 M€
EC funding:	2.9 M€



CONTACTS

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FIT-4-AMANDA

Future European Fuel Cell Technology:
Fit for Automatic Manufacturing and Assembly

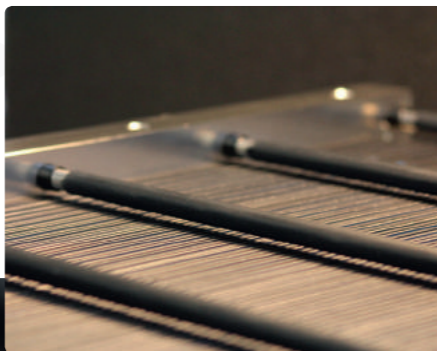
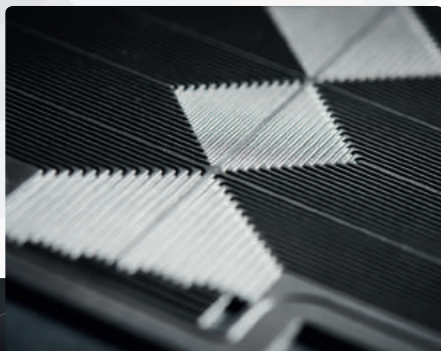
www.fit-4-amanda.eu

PROJECT

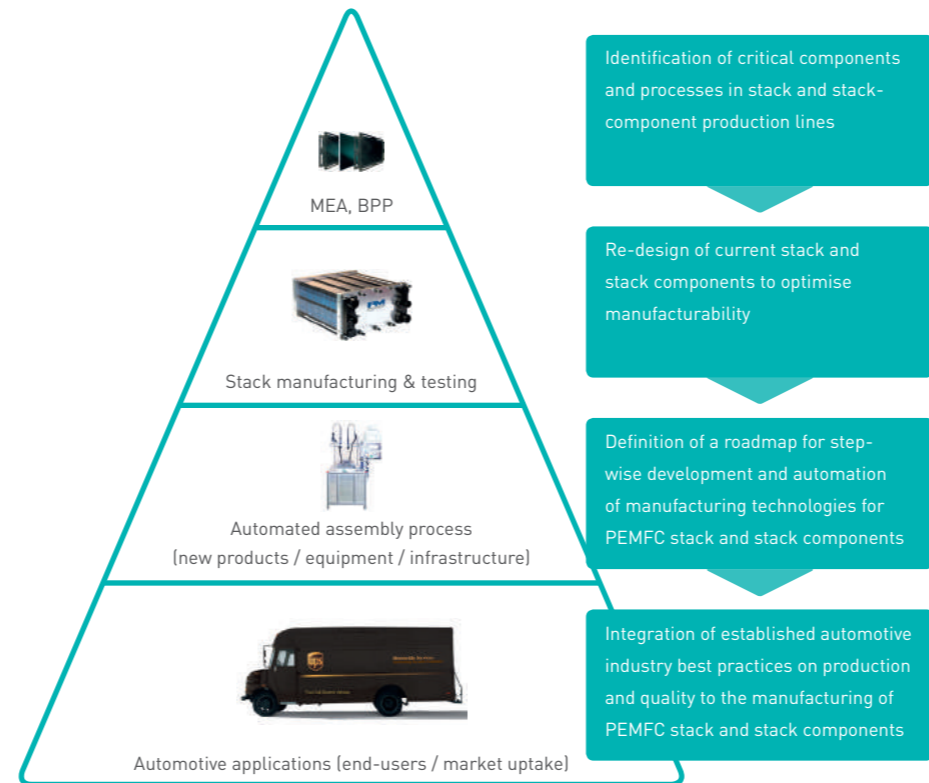
Fit-4-AMandA focusses on the industrialisation of stack production and delivering affordable fuel cell systems in large quantities to saturate the emerging market / demand.

The essence of the project is to construct a new and unique machine, which allows series production of the centrepiece of a fuel cell system: the stack. This will revolutionise the way how stacks are going to be produced in the future.

The overall objective of the project is to develop, validate and demonstrate step changes in term of cycle time, manufacturing cost, yield and reliability in two critical steps in the production of PEMFC systems, *i.e.* the production of the MEAs and the assembly of the stacks.



CONCEPT and APPROACH



OUTPUTS

The Fit-4-AMandA project will deliver the following outputs:

- Reducing the production time, from the current 40 hours to 30 minutes per stack;
- Developing a manufacturing machine with an automation grade of more than 90 %, capable of producing ready-to-operate fuel cell stacks in one assembly line at a theoretical quantity of >10,000 stacks / year;
- Establishing the technological roadmap to scale up from less than hundred stacks / year to 50,000 stacks per year in 2020 and beyond;
- Reducing the stack costs by roughly 50 % through economies of scale and increased automation;
- Integration and field testing using one of the first prototype stacks manufactured by the automated processes into a light / medium commercial vehicle provided by UPS.

