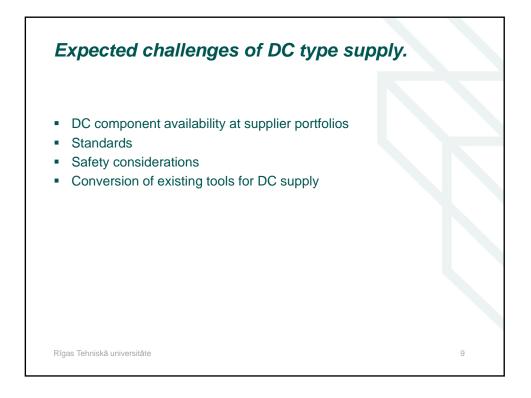
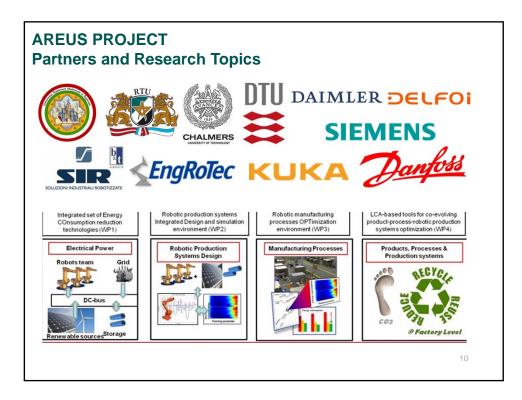
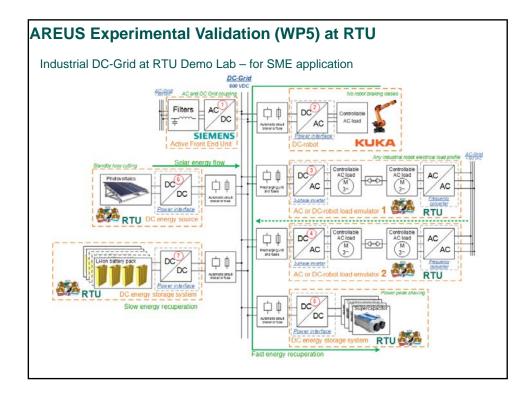


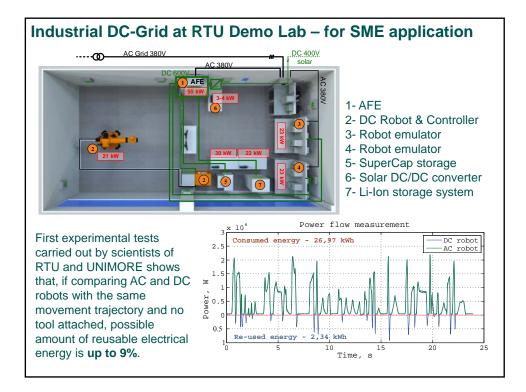
4

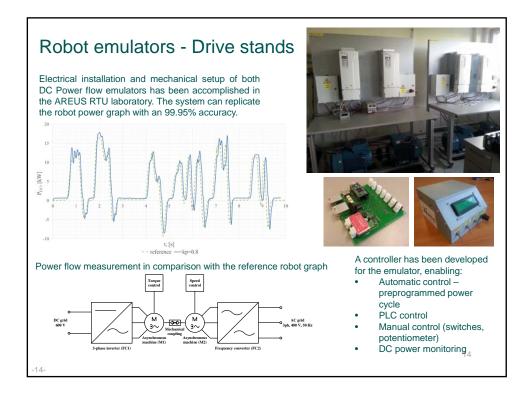


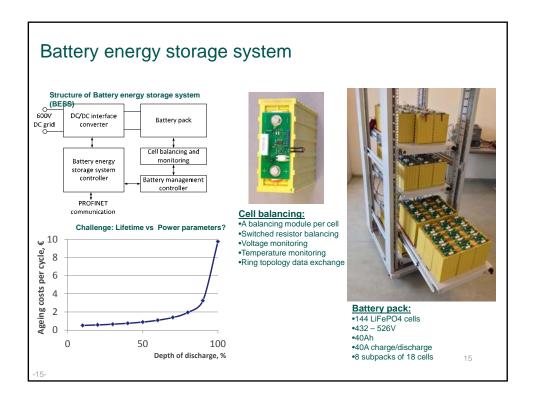


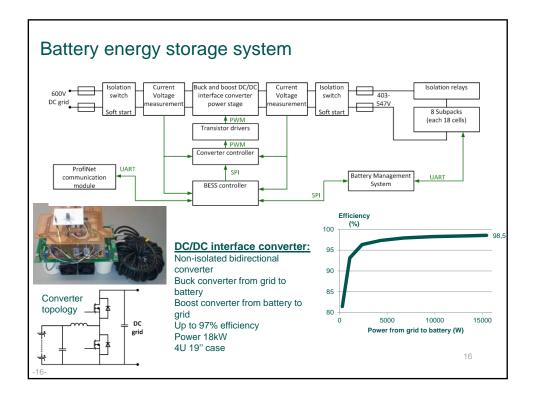


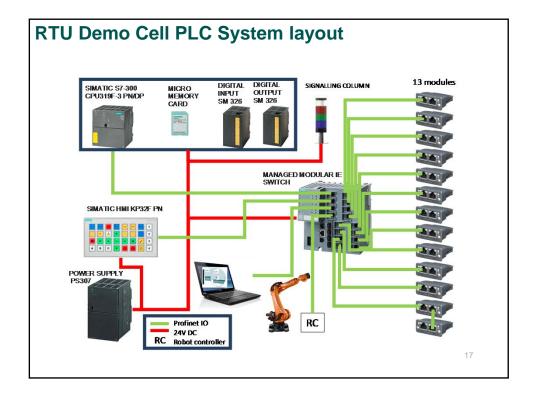


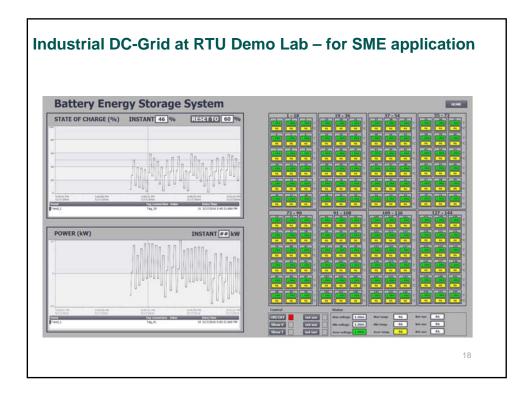


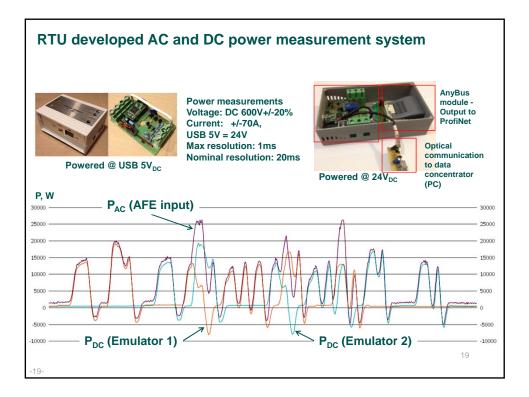


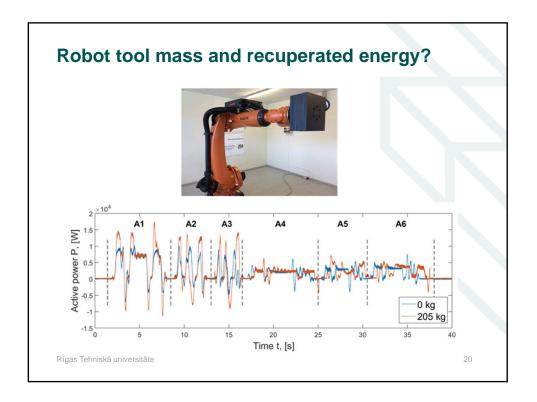


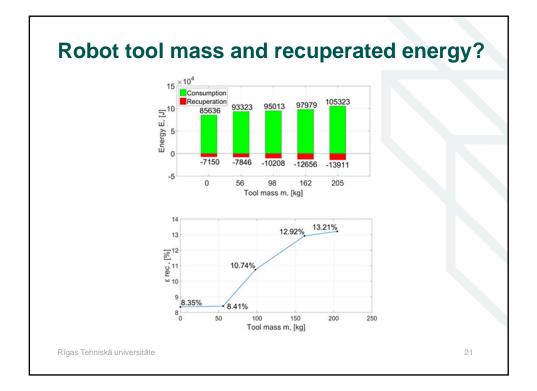


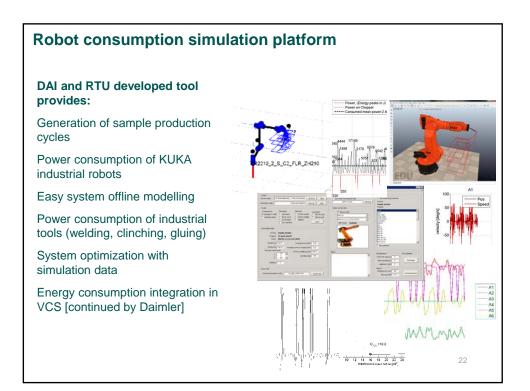








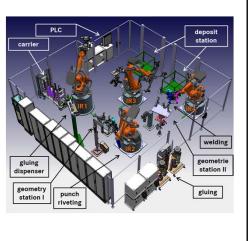




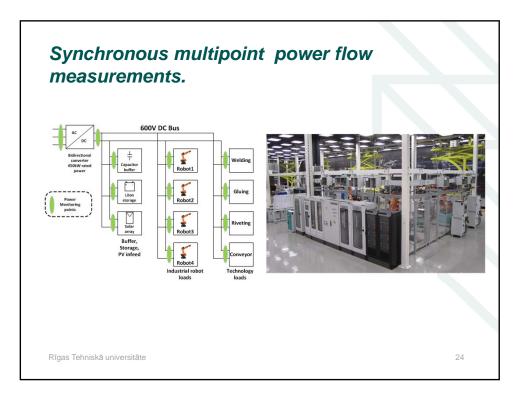
Industrial DC-Grid at DAIMLER – for large industry application

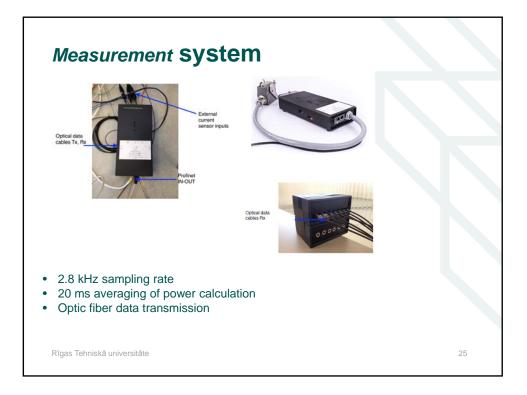
DAI has constructed a demonstration cell with 4 DCpower-supplied prototype industrial robots at DAI, Sindelfingen, Germany. Included subcomponents:

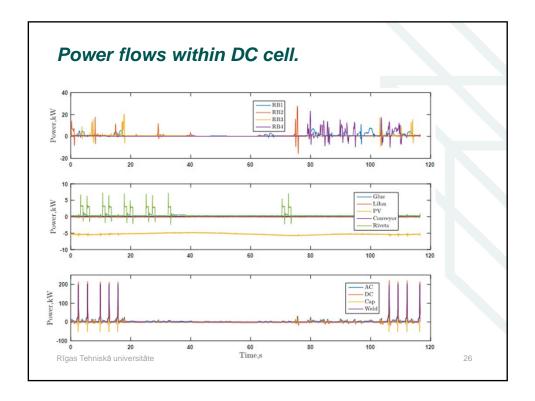
- Central AC/DC interface converter .
- (Active Frontend)– rated power 450kW. Set of 4 KUKA industrial robot manipulator prototypes for DC type . electrical infrastructure Quantec KR210 R2700 Prime.
- Aluminum spot welding tool mounted on industrial robot, DC prototype based on Bosch Rexroth product.
- Rivet clinching tool DC prototype related . to existing equipment provided by Tox.
- Glue dispensing tool equipment prototype for DC electrical supply, • developed by Daimler AG.



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	DC load group (4 robots, tools, capacitor buffer)	Robot 1	Robot 2	Robot 3	Robot 4	Technology tools (4 units)	Capacitor buffer
P _{pos} , kW	8.01	0.99	0.94	0.68	0.64	3.51	1.25
P _{neg} , kW	1.06	0.012	0.1	0.04	0.04	0.04	0.82
P _{neg} / P _{pos} ,	13.23	1.21	10.64	5.9	6.25	1	66
%							
	l 4 robot DC co consumed co						

