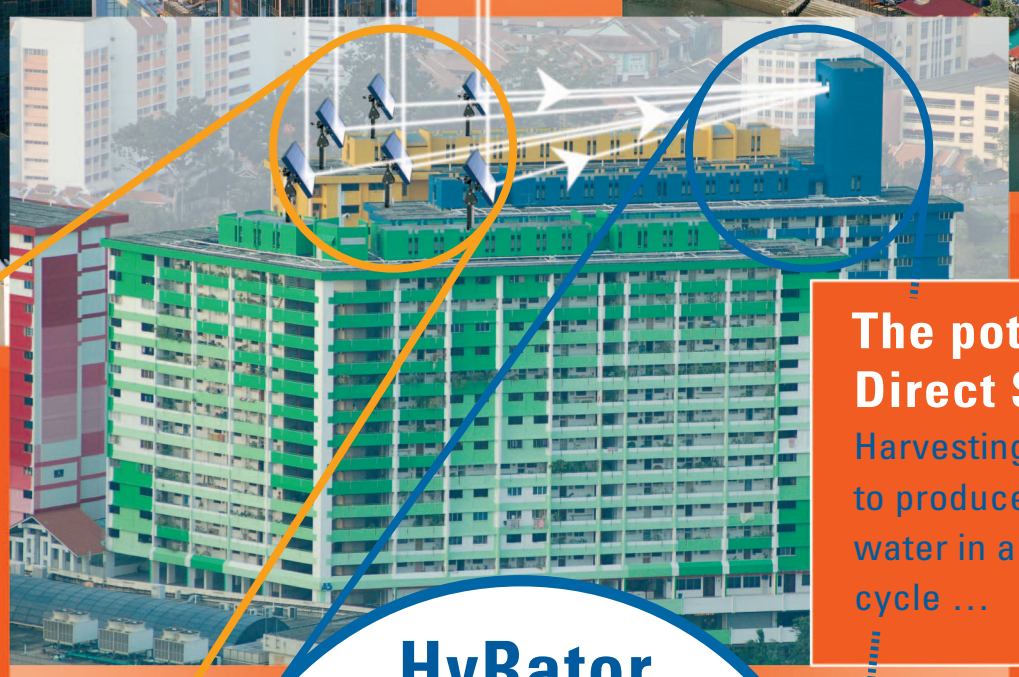
Direct Solar Hydrogen: *The next Steps*

SolarPACES 2009

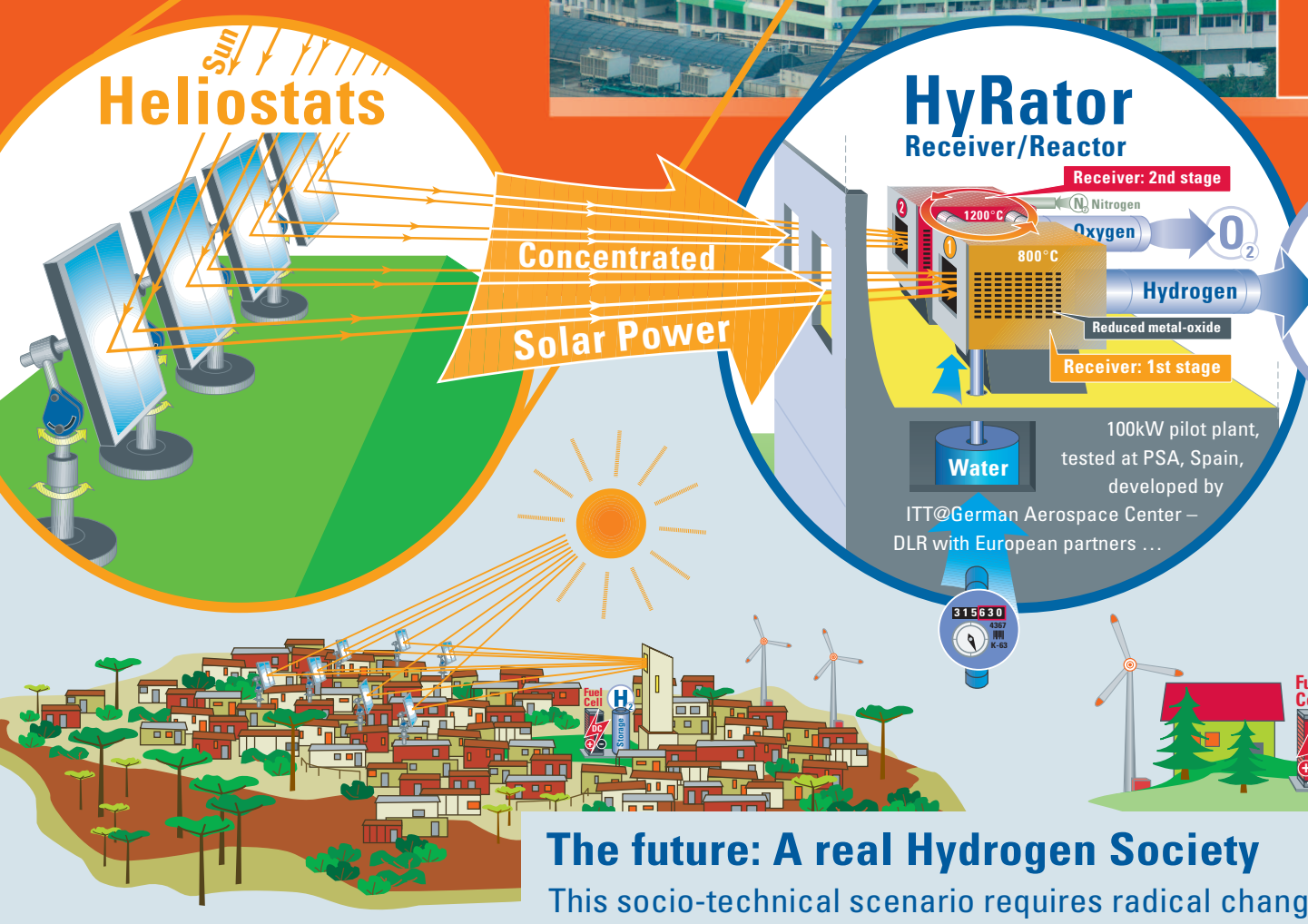
The reality: Fossil-based Hydrogen

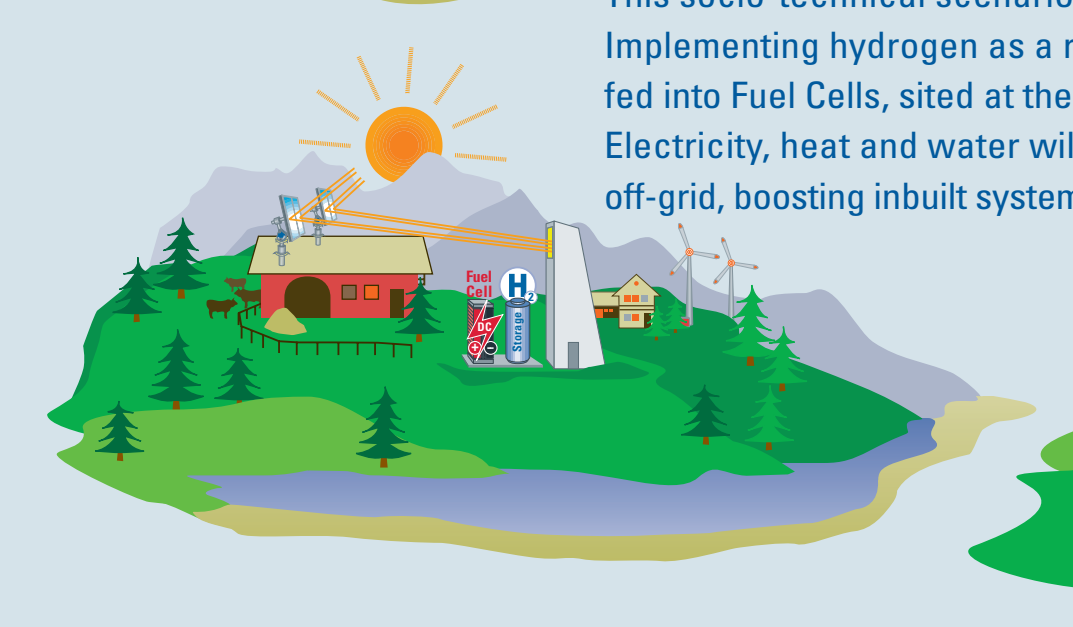
The world's economy uses about 45 x 10^6 tons of hydrogen p.a., worth US$ 280 billion.
96 % of it is derived from fossil fuels, only 4 % from electrolysis …

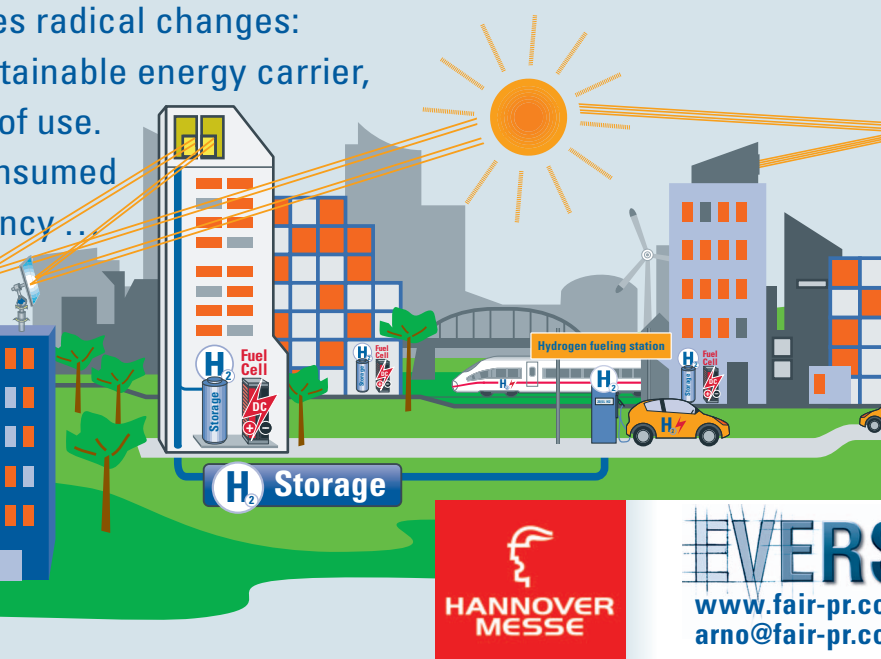


The potential: Direct Solar Hydrogen

Harvesting concentrated solar power to produce sustainable hydrogen from water in a 2-step thermo-chemical cycle …







The future: A real Hydrogen Society

This socio-technical scenario requires radical changes:
Implementing hydrogen as a real sustainable energy carrier, fed into Fuel Cells, sited at the points of use.
Electricity, heat and water will be consumed off-grid, boosting inbuilt system efficiency …

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