



Advanced Power Quality Monitoring and Assessment

“PiKu”



Terni, March 9st, 2015





Project Idea



**IT'S NOT A
CHANCE
UNLESS YOU
TAKE IT!**

Energy Losses

Reduction of Life

Process/Devices Trip

.....

Smart Grid & Electricity Market:

Degree of Freedom !

Electric Power System are not efficient without understanding the Power Quality!

Smart Grids are not so smart without understanding the Power Quality!





Market Opportunity

Poor Power Quality!



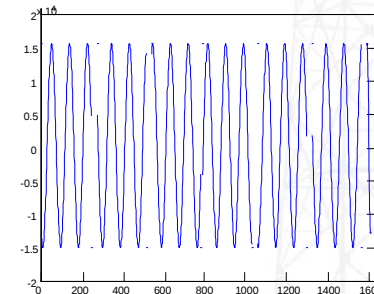
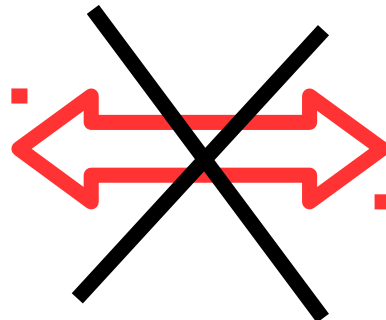
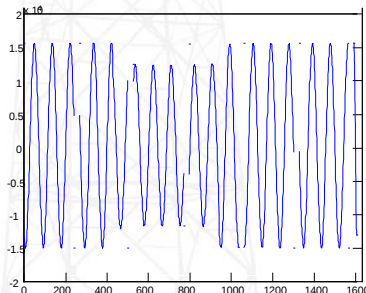
150 billion €

Loss in Industrial sector 4% turnover

Free Market without Quality



Free Market with Quality: 1kWh is not equal to another 1kWh

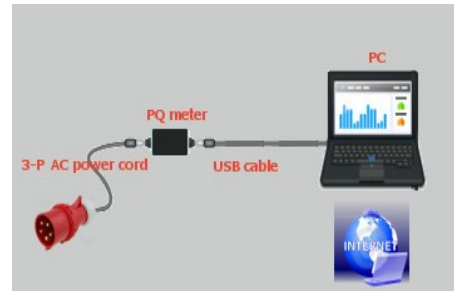




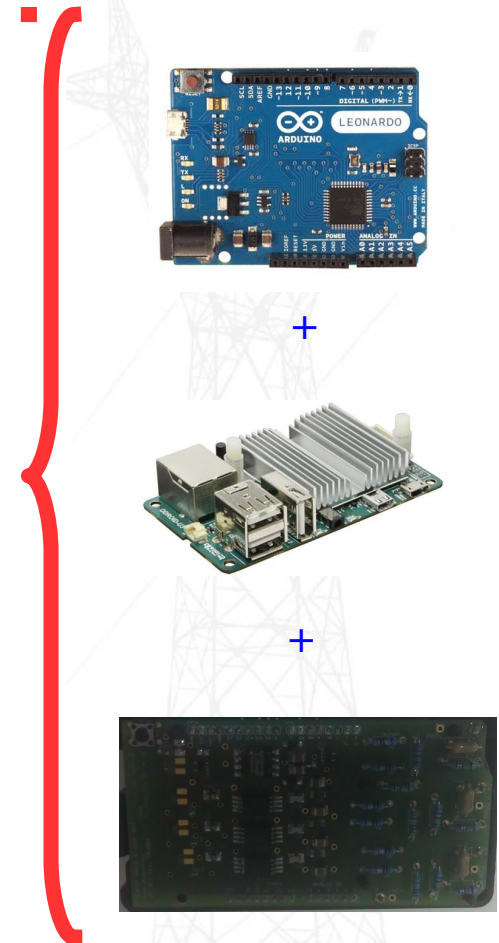
Product / Hardware



Piku Advisor

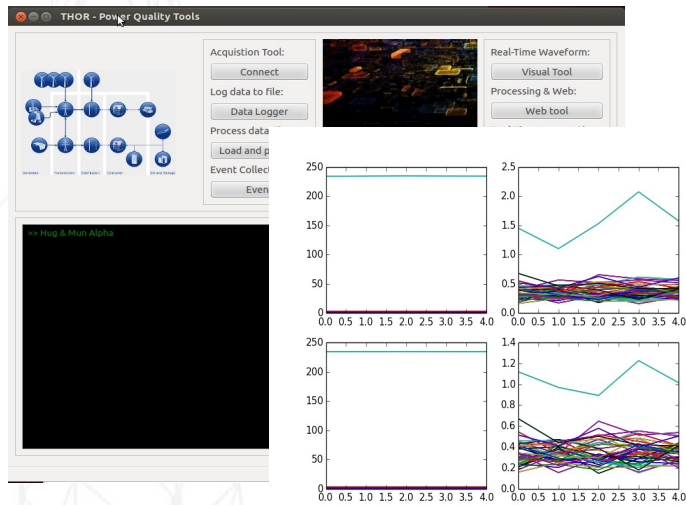
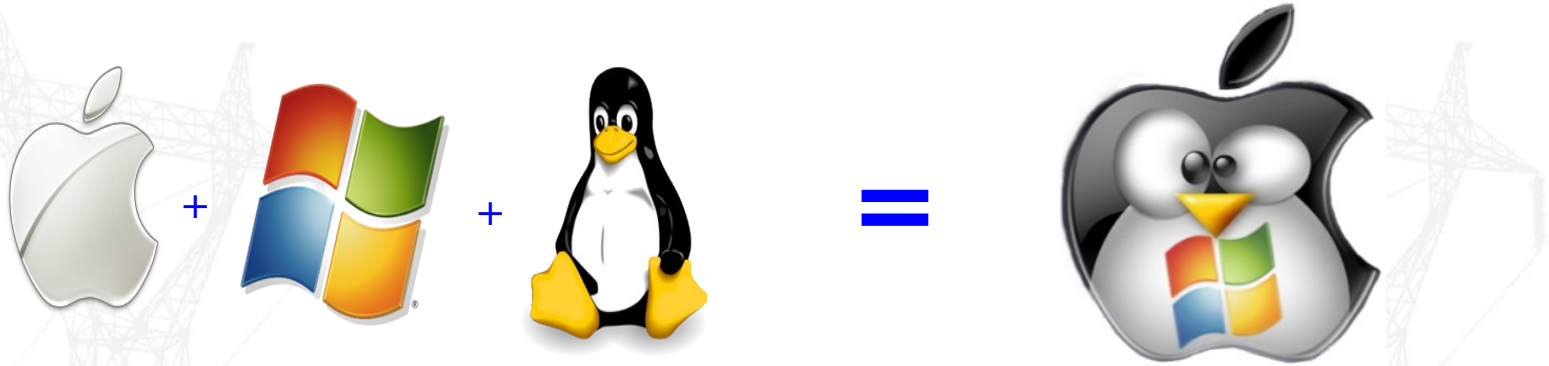


Piku Professional

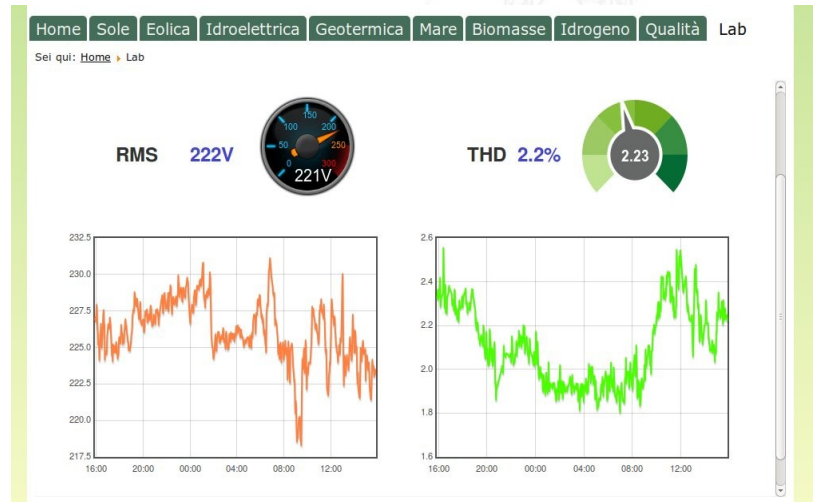




Product / Software



PiKu local GUI



PiKu Web GUI





Comparison chart

Features	PiKu	Traditional
<i>Raw and intermediate results</i>		
<i>DFT Analysis</i>		
<i>Group and Subgroup Analysis</i>		
<i>Interruptions detection and characterization</i>		
<i>Dips and Swells detection and characterization</i>		
<i>Unbalance</i>		
<i>Sub-resonance</i>		
<i>Real time capabilities</i>		
<i>Global indices</i>		
<i>IoT</i>		

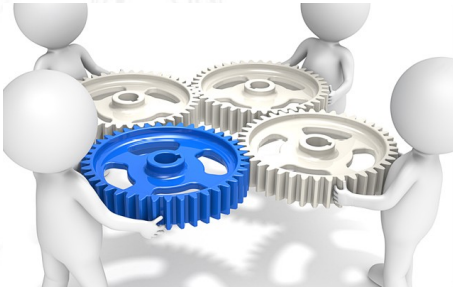




Cooperation profile



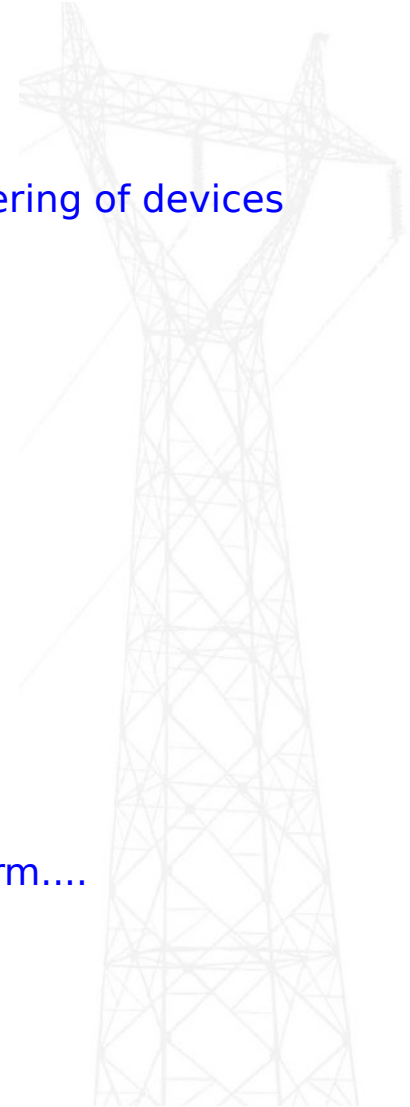
Financial: Improving and engineering of devices



Technical: H2020 proposal....



Commercial: e-commerce platform....





Thank you

