

## for Energy-Intensive Industry

### Automated Energy & Industrial Process Forecasting

#### Energy-Intensive Industry Business Challenges :

Energy costs impact a significant part of industry core product gross margins.

The electricity market opening enables new purchase and opportunities but also new international industrial arbitration opportunities.

Commodity product transformation sector is under heavy margin pressure in very volatile markets. Optimizing and automating business processes has become a key differentiator to compete with efficiency against ever growing competition. Anticipation & Short Term forecasting is a unique enabler to bring process optimization to the next level of performance and reduce costs.

Gartner stated : *'by 2016, 70% of the most profitable companies will manage business processes using real-time predictive analytics or extreme collaboration'*.



#### Predictive Layer Solution :

- Automate energy demand forecasting (Day+1 → Day+7)
- Electricity market forecasts to optimize purchase strategy
- Daily & Intraday forecast (EPEX, APX,...)
- Optimize utility & industry KPI forecast: prescriptive analytics

#### Predictive Layer Technologies :

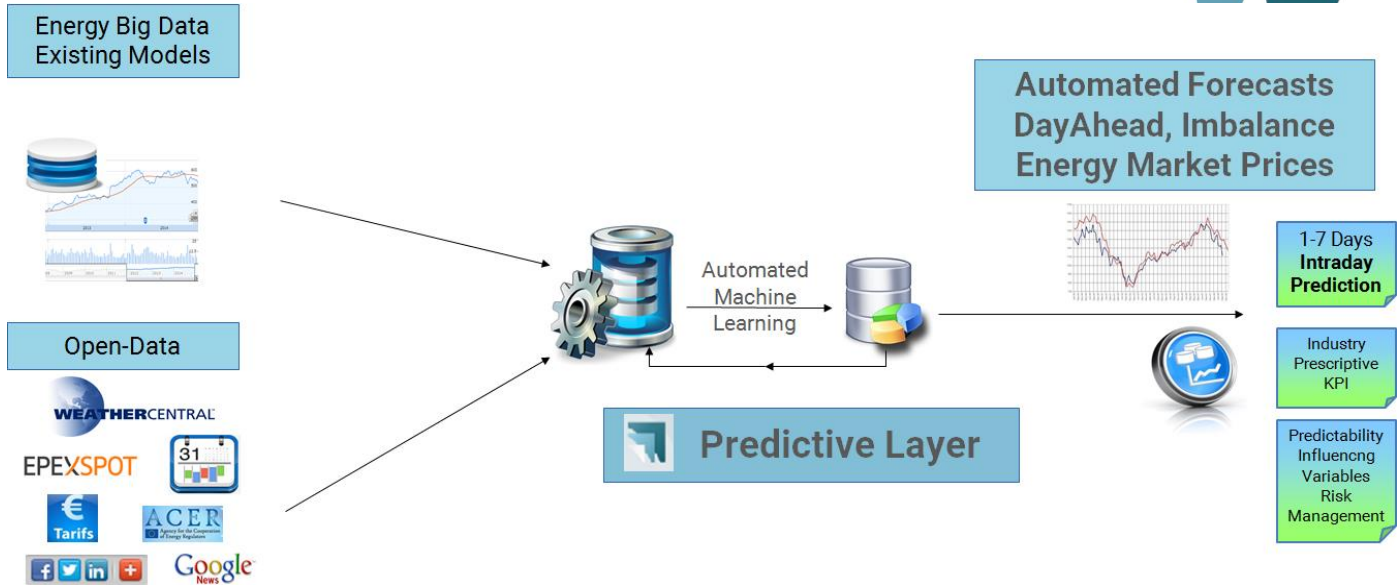
- Automated Machine Learning Artificial Intelligence
- Automated correlation of Private and Open-data
- Accurate Statistical Forecasts (Day-1->D-15, Hour-1->H-18)
- Precision & reliability monitoring for Risk Management

#### Energy-Intensive Industry Benefits :

- Reduced cost for energy, electricity & utility purchase, hedging and trading
- Optimize demand/response strategies
- Enabling arbitration between sites for increased margin
- Automate associated industrial process based on prescriptive forecasts



# Predictive Layer for Energy-Intensive Industry



- Automated Machine Learning for high precision & reliability forecast, outperforming by ~35% existing expert models
- Model fusion to allow multi-experts decision blending
- Automated correlation of historical records with public markets and external Open-Data (including weather, events, regulation signals,...)
- Enrich existing models with Open-Data market dynamics
- Automated Modelling for fast international market adaptation
- IT flexibility to implement artificial intelligent service on in-house Data-Center or in Secured Hybrid Clouds
- Standard APIs to existing EMS Management, Trading and Risk & Compliance management applications
- Fast Proof of Concept & Pilot to validate immediate ROI
- Performance based pricing



## Only Benefits to Try Predictive Layer !

