

METRON

ARTIFICIAL INTELLIGENCE

& ITS POTENTIAL FOR

SUSTAINABLE ECONOMIC GROWTH

Training module for the International Energy Agency

By Vincent Sciandra, CEO of METRON



ENVIRONMENT & DEVELOPMENT CHALLENGE

ALAS A SOLUTION TO DECARBONIZE A GROWING ECONOMY

CHALLENGES





- → Aligning **economic growth** with **sustainable development** = one of the greatest challenges of the century
- → The two are **not mutually exclusive**

THE WAY FOR WARD





- Opportunity to optimize energy systems and help decarbonize the economy
- Optimized energy systems to help industrials and countries achieving environmental and climate engagements while retaining output production and competitiveness



OUR MISSION & SOLUTION

ENERGY INTELLIGENCE FOR STRONG AND SUSTAINABLE DEVELOPMENT

We create

ENERGY OPTIMIZED INDUSTRIES

where:

- → Energy consumption is fully optimised
- → Facilities are **reducing carbon footprint**
- → Managers are empowered by AI
- → Sustainable equals to competitive

We do so by providing a

PLATFORM SOLUTION

which:

uses A rtificial Intelligence to bring industrials



15% of energy savings



measurably **greener** production



payback in less than 12 months for any factory

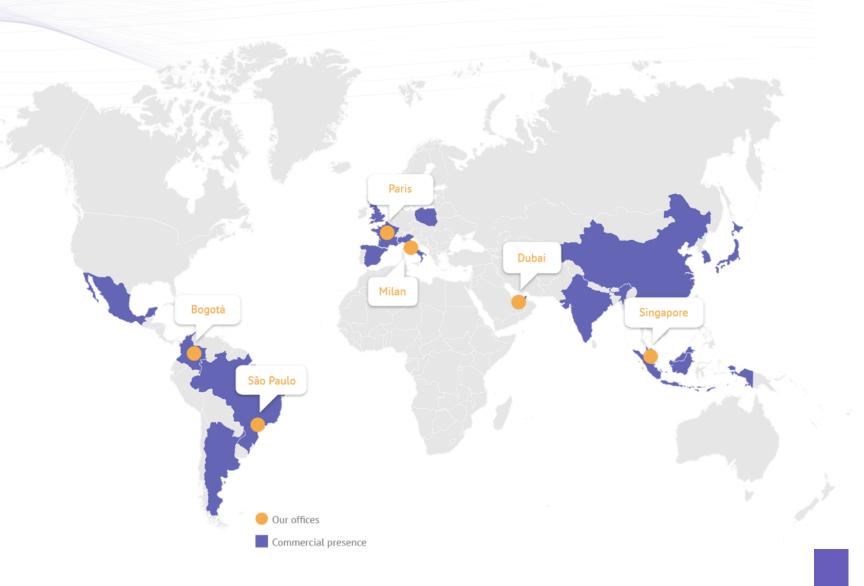


GLOBAL POTENTIAL OFENERGY INTELLIGENCE

AI SOLUTION WHICH WORKS IN ANY FACTORY

100 + 100% clients satisfaction

- **√ Industry-agnostic** approach
- → Regardless digitalisation level
- Successful projects in numerous developing countries
- → No impact on the quality or quantity of the production





SUCCESS STORY: PAPER PLANT IN COLOMBIA

INNOVATIONS & TOTAL SAVINGS

BEFORE

- → Macroscopic monitoring of energy consumption
- No visibility on the production parameters influence on energy consumption
- → Isolated and manual tests to find the best practices in chemical retention

O p tim isations	Savings / year
Paper M achine D rying	190000\$*
Pulp process	50 000 \$
C oating project	10000\$
TO TAL SAVINGS ACHIEVED	250 000 \$
Potential additional savings	1 80 000 \$

AFTER

- → Digital energy management
- Paper Machine energy consumption model with production context
- → Real-time alams
- → Optimization of chemicals without production deterioration





SUCCESS STORY: PAPER PLANT IN

SOCIAL AND ENVIRONMENTAL BENEFITS









More **climate friendly** production

R eduction of the use of chemicals

A utomatic reporting of paper machine performance

E nergy efficiency culture spread among the paper machine operators

25 000 tons of CO2 saved every year

22% less of chemical agents needed

1 day-man time saved / week

En e rgy u sage aw areness





...AND WHAT IF?

AI IN COLOMBIA FOR SUSTAINABLE GROWTH



COLOMBIA NOW

- ightharpoonup 275 million tonnes of CO2 every year
- National Determined Contribution (INDC) according to the C hange for 2030 = achieve 20% less C 0 2 emissions yearly
- → Industry needs to save at least 3,4 million tonnes CO2 yearly

UN Convention on Climate

COLOMBIA WITH A I-OPTIMISED INDUSTRY

- → INDC for Industry achieved if approximately 1 36 of its largest factories have process A I-optimized
- → Significant contribution to C olombia's climate goals
- → More competitive industries thanks to cost savings
- → New funds for innovation and sustainable ex pansion

their **main**

Energy Intelligence for Industries © All rights reserved

