IOTWeek

Dublin — June 20-23, 2022

# Edge computing & Green Deal use case examples

Fernando Monzon

GLOBAL VISION:

IoT TODAY AND BEYOND

IOTForum

# EU green deal

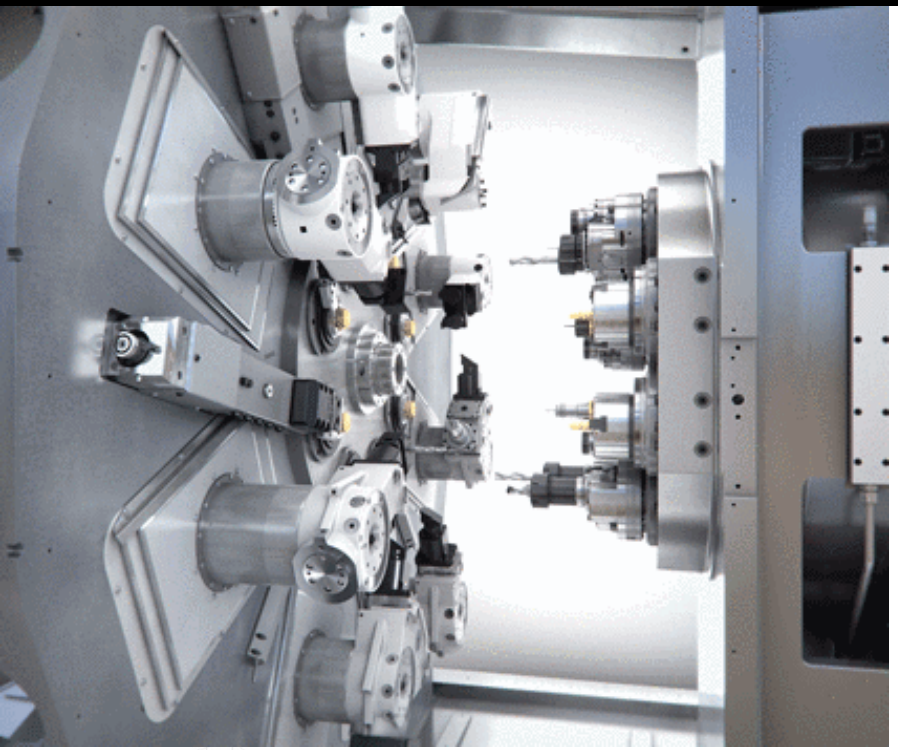


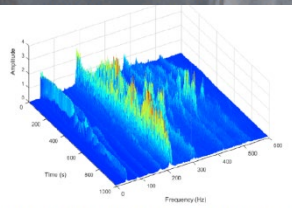
European Commission

## Does this really relate to Edge Computing?

# Example1 : Industrial IoT







ESPECTRO DE VIBRACION EN EL DOMINIO DE LA FRECUENCIA COMO SERIE TEMPORAL

IMAGEN TERMICA DE 1000 PIXELS GENERADA DESDE UN SENSOR INFRARROJO

SENSOR DE VELOCIDAD DE GIRO

**Industry & the Green Deal**

The European Green Deal is the **EU's new growth strategy**, aiming to transform the EU into a fairer and more prosperous society, with a modern, **resource-efficient** and **competitive** economy, with no net emissions of greenhouse gases by mid-century.

By using Edge computing:

1. solution **economically viable**
2. **Improved** Analytics capabilities
3. **Minimizing** costs

**Results**:

1. Operational Efficiency
2. Reduction in waste productions
3. Reduction in Energy consumption

# Example2 : Industrial wastewater monitoring

The **zero pollution vision for 2050** is for air, water and soil pollution to be reduced to levels no longer considered harmful to health and natural ecosystems, that respect the boundaries with which our planet can cope, thereby creating a toxic-free environment.

By using Edge computing:

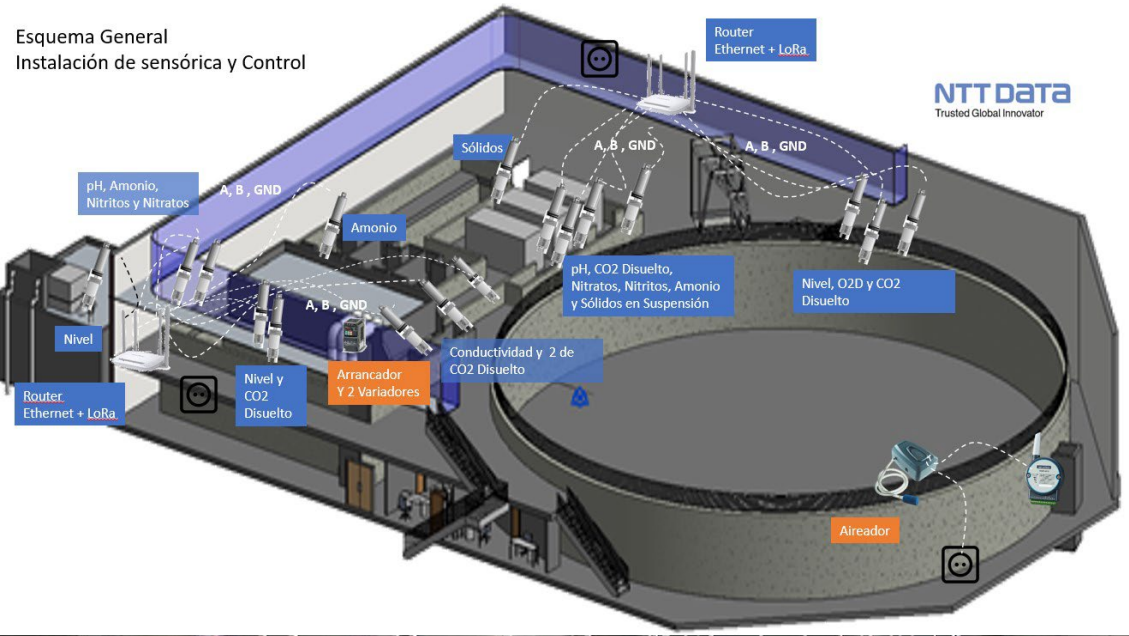
1. **Real time response** & alerts
2. **Improved** Analytics power
3. **Minimum costs** for Storage & communications

**Results**:

1. Immediate remediation capabilities
2. Minimization of waste water spills

# Example3 : Recirculating Aquiculture System





**Common fisheries policy (CFP)**
- Increase productivity
- to stabilize the markets
- to provide a source of healthy food and
- to ensure reasonable prices for consumers

Edge computing brings:

1. **Possibility of using IoT (substitution of SCADA)**
2. Improved **Analytics power**
3. **Minimum costs** for Storage & Communications
4. Máximum **Efficiency**

**Results**:

1. Immediate response capabilities
2. Cost savings & increase in productivity
3. Resilience

# Example4 : Edge computing Not always the perfect fit

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# Conclusions



European Commission

**Does this really relate to Edge Computing? YES**

**Sustainability** objectives depend on operational **Efficiency**

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# Thank you!

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www.nttdata.com

iotweek.org