



# CGI

Experience the commitment®

# IBOR

INNOVATIVE SOLUTIONS FOR THE OUTDOOR SPACE

**Y**ou have little choice: street lighting is either on or off. Pumping stations operate day and night, even when it is not strictly required. Traffic lights are set on a fixed schedule – so, traffic does not always flow optimally.

The problem is that all outdoor assets work independently, with their own protocols and operating systems. They do not communicate with each other and you cannot **control and manage all of them in an integrated way**. If a defect is suspected, you need to inspect the asset locally. And how much energy do your light towers and bridges actually consume ... you need to estimate.

## WHAT IF YOU COULD BE FULLY IN CONTROL?

Imagine that you can:

- free up traffic lanes for police, fire fighters or paramedics, enabling
- faster arrival at the location of the incident;
- ensure that traffic flows optimally;
- determine when you can adjust street lights depending on
- circumstances. For example, to help motorists through poor visibility;
- control pump output, for example when severe weather is predicted.

That would not only make outdoor space safer and more efficient, but also save you money, time and energy.

## THE SOLUTION : IBOR

IBOR connects all the dynamic outdoor assets and gives you control over these assets.

## ROOM FOR SAFETY...

When police and **emergency services** need to react urgently, IBOR offers the possibility to transfer control to the local emergency room. From this room, bollards, bridges and traffic lights can be controlled to allow emergency services to reach an incident unhindered.

IBOR registers information on possible hindrances, for example, road works, that can be taken into account in **route planning** and thus prevent the risk of unnecessary delays in reaching an incident. IBOR also enables more specific support of emergency personnel, like additional light or increased water pressure for firefighting.

Another possible application is **event management**. The audience of a soccer match or pop concert may be guided to and from the event location using specific street lighting or patterns.



## KEY BENEFITS

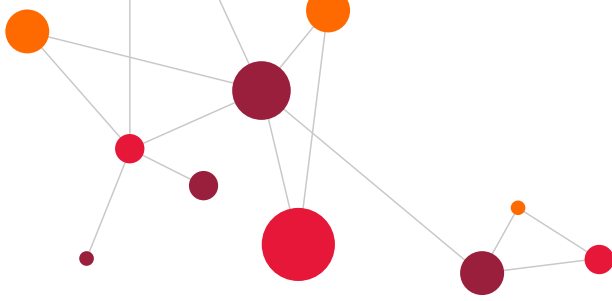
- Increased safety and mobility in outdoor space
- The total outdoor space is available in one geographical interface, managed by one service
- Comprehensive presentation capabilities, ranging from control room to smartphone
- Easy collaboration and transferrable control, for example, to police in case of accident or event
- Save on energy consumption
- Reduced CO2 emissions
- Precise insight into energy consumption with link to financial system
- Increased efficiency in maintenance and management

## KEY FEATURES

- Vendor-independent
- Scalable
- Several architectures possible such as SaaS or In-house

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In short, IBOR can help you enhance safety and respond efficiently to incidents and events.

### **ROOM FOR SAVINGS...**

- Street lighting alone is responsible for 35 to 50% of total energy consumption. Decreasing light levels and dynamic switching will decrease power usage and CO2-emission with up to 40%.
- Monitoring and controlling pumps and pumping stations remotely ensures that these assets do not run unnecessarily, again saving, energy and money.
- IBOR integrates information from various management systems. This allows you to manage your maintenance processes more efficiently.
- Your maintenance planning will be based on actual consumption data.
- The assets themselves automatically report their energy usage. Saving energy will no longer be a matter of 'educated guessing' and energy billing can be calculated using factual data.

### **AND ROOM FOR INNOVATION**

IBOR brings modern concepts such as smart cities closer to reality. Municipalities, provinces, (air) ports, harbours and large industries can work at the local level to be sustainable, integrated with other current topics like security and mobility.

### **THANKS TO THE LATEST, RELIABLE TECHNOLOGIES**

The heart of the system is the database containing the real time asset data, connected statistical asset data and several essential functions such as:

- analysis and presentation functions;
- dynamic function;
- connection with business control systems.

Additionally IBOR is vendor-independent, scalable and suitable for safe use by multiple departments or multiple units of an organization.

### **ABOUT CGI**

Founded in 1976, CGI is one of the world's largest IT and business consulting services firms. We help clients achieve their goals, including becoming customer-centric digital organizations, through high-end IT and business consulting, systems integration and outsourcing services combined with a unique client proximity model and global center of excellence network.

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