



knowledge  
2017 Honeywell  
Users Group



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# **INTEGRATED TERMINAL AUTOMATION**

Safety, Security and Operations

**Honeywell**  
THE POWER OF **CONNECTED**

# Introduction

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For decades, the number of systems being installed on terminals has been growing exponentially. Presently, most terminals operate on a variety of systems in various stages of their lifecycle. In the coming years, it's no surprise that the systems and their complexity is expected to grow further by legislation, HSE requirements and challenging market conditions. This will result in increased focus on efficiency improvement and operational excellence.

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# As a Consequence ...

## General

- Low level of integration
- Lack of consistency
- Piecemeal approach for system replacement

## Operations

- Multiple systems to work with
- Multiple HMI's/UI's to work with

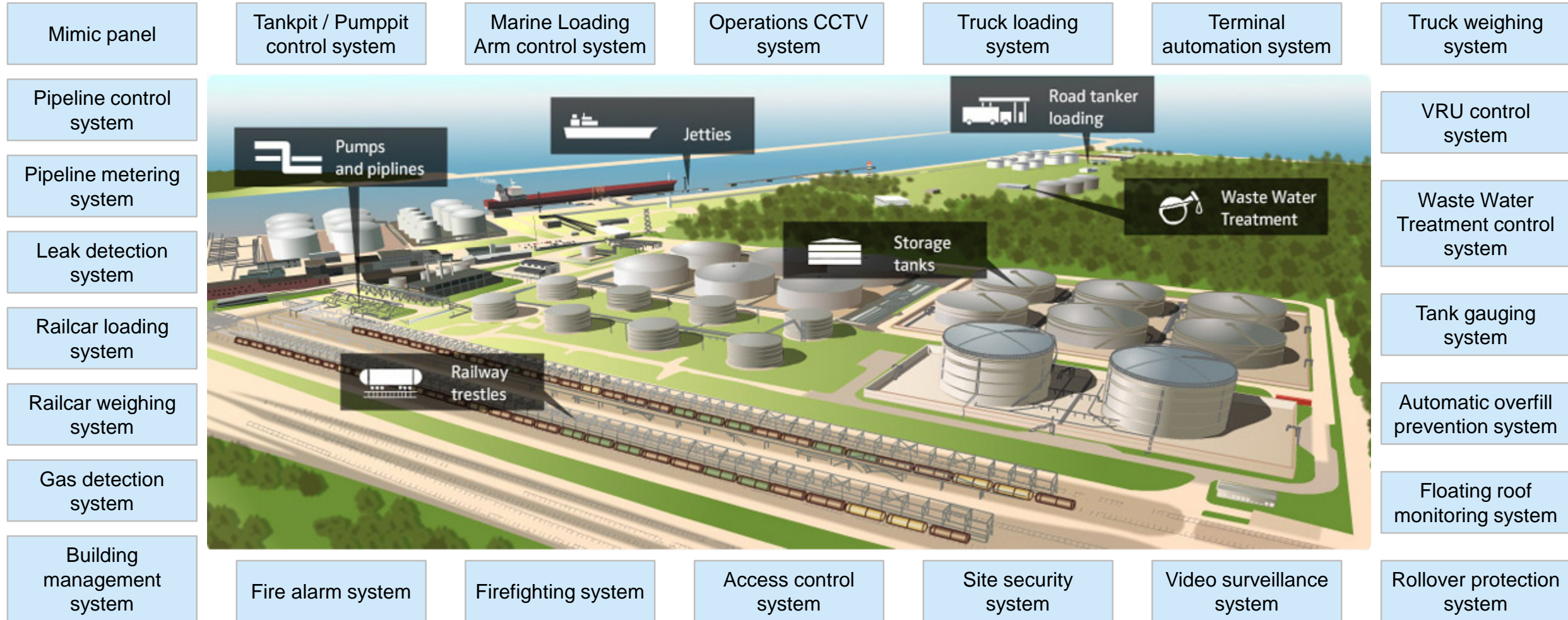
## Maintenance

- Multiple systems from different vendors to support and maintain
- Multiple support contracts to manage

## Management

- Manual collection of data for KPI reporting
- No dashboard to operate from
- Difficult to benchmark different parts of the organization

# Systems Deployed on Terminals Nowadays



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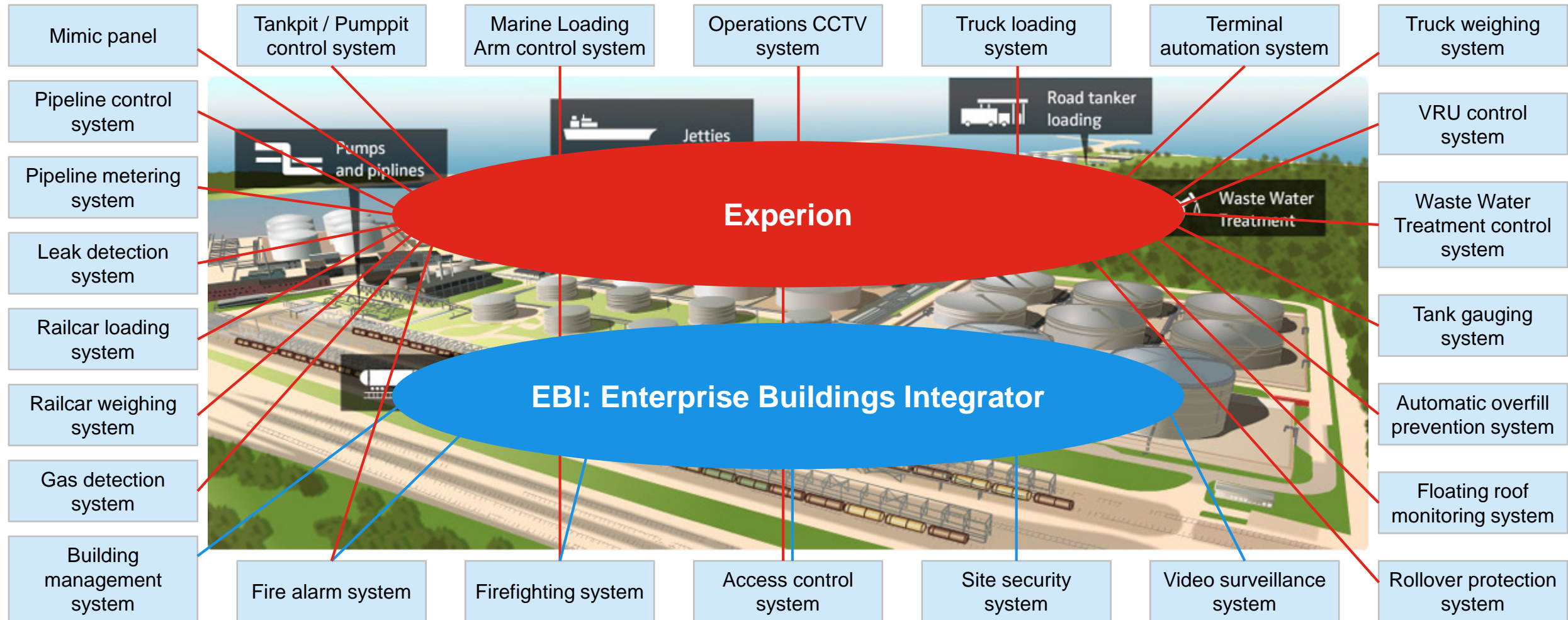


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**Integration requires a common platform!**



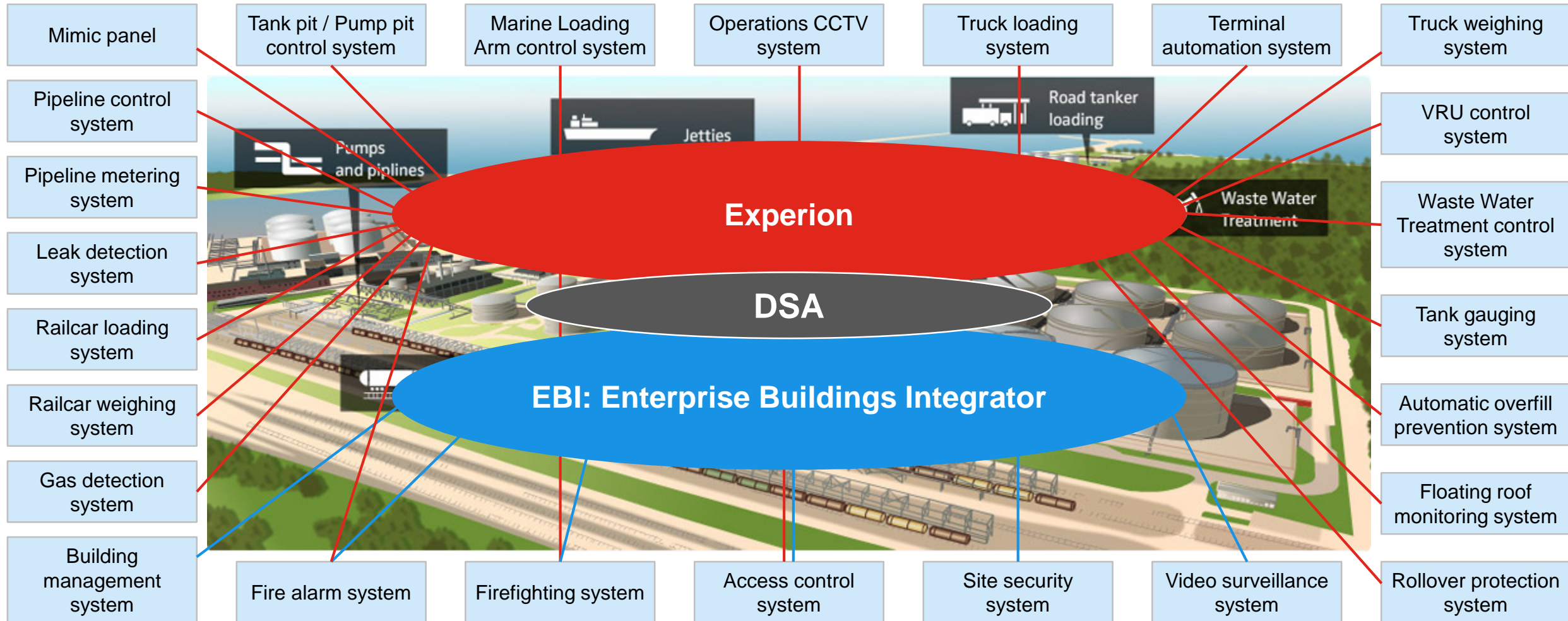
# Systems Deployed on Terminals Nowadays



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**Honeywell's Experion /EBI platform can integrate all these systems!**

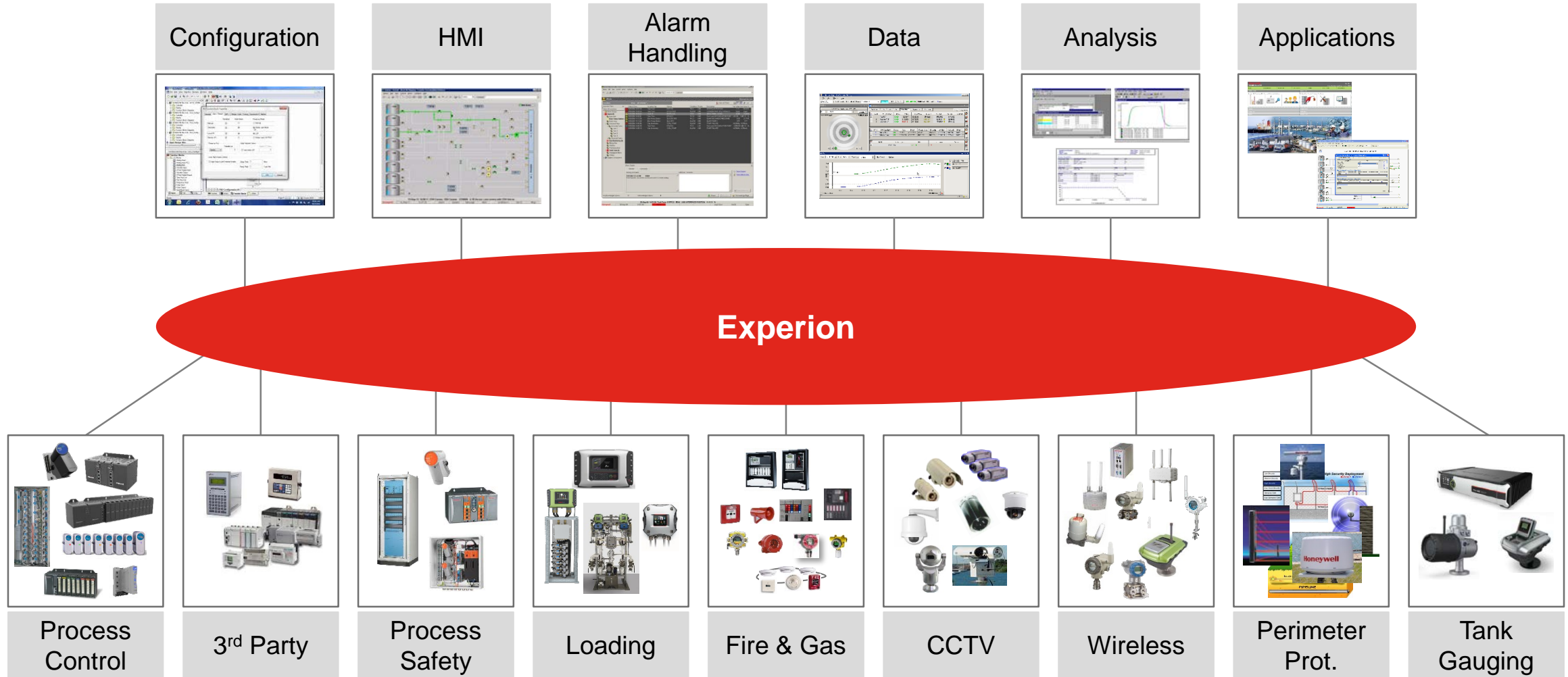
# The Same Platform but Different Functionalities



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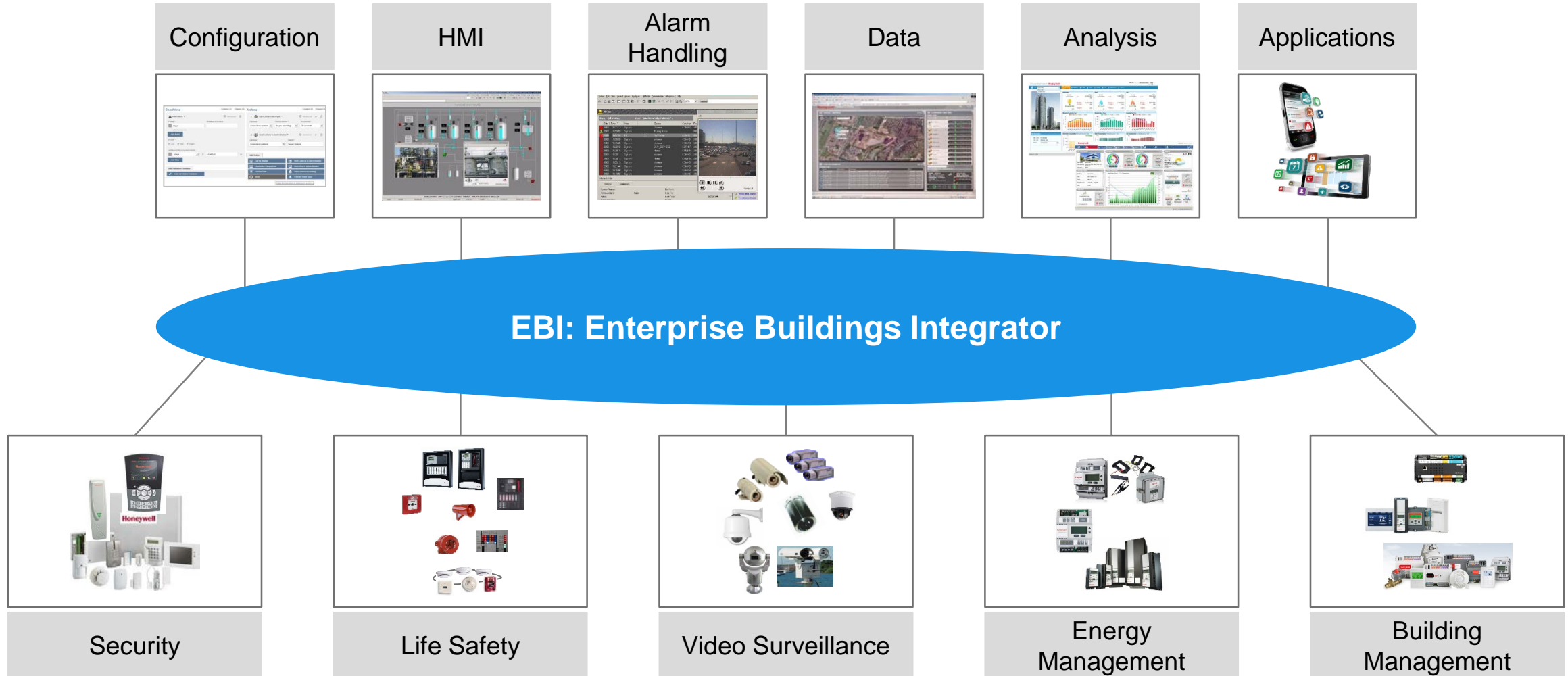
**Experion and EBI share the same platform. Integration via DSA.**

# The Platform for Process Automation: Experion

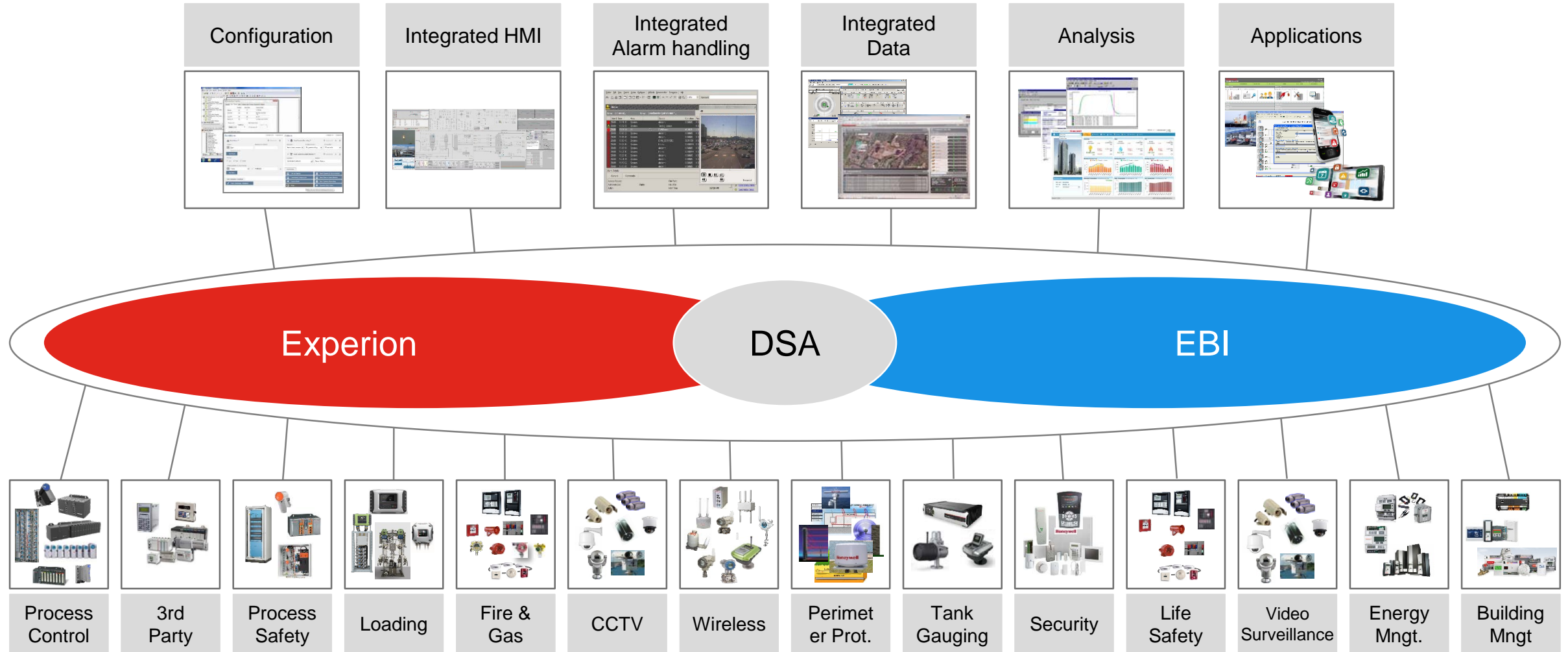




# The Platform for Site Security and Building Automation: EBI



# The Integrated Terminal Platform

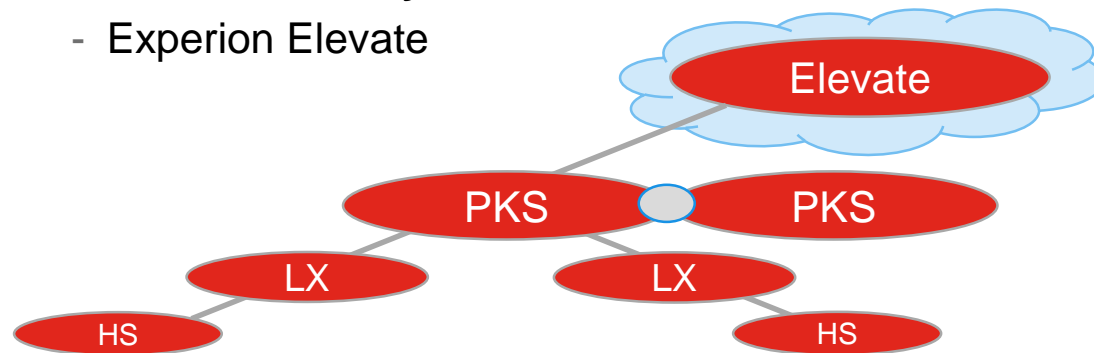




# Platform Characteristics

## Experion

- **Scalability**
  - 3 sizes (large – small): PKS, LX and HS
  - Licensed by modules and number of points
  - Distributed System Architecture
- **Redundancy**
  - Redundant servers
  - Redundant networking
  - Redundant controllers and I/O
- **Cloud connectivity**
  - Experion Elevate



## EBI

- **Scalability**
  - Licensed by modules and number of points
  - Distributed System Architecture
- **Redundancy**
  - Redundant servers
  - Redundant networking
- **Cloud connectivity**
  - Remote monitoring and tuning
  - Mass notification



# The Benefits of Honeywell's Integrated Solution

## General

- A single, integrated platform for all your terminal automation needs
- You can start with a single application and expand over time by adding more systems and applications to it
- Easier to implement, support and maintain
- Lesser training required

## Operations

- Single operator window, uniformity in user interfaces, common look and feel
- Common alarm management, all alarms and events combined in a single list
- Automatically triggered responses to events across systems

## Maintenance

- Single platform to support and maintain
- Common infrastructure is easier to maintain
- Common/similar maintenance tools
- Easier to sign a performance based support contract

## Management

- Combined data collection enables combined data analysis, KPI reporting and a single dashboard
- Possibility of a step-by-step migration delivering benefits right from the start
- Easier and more cost effective way to expand and add functionality
- A flexible automation platform supporting corporate agility