



The Value of Tagging in Building Automation in Europe

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Europe – more people, less space and older

- Population
- Land area
- Age of buildings
 - Many more older buildings in Europe

367M people

North America

10M sq miles

743M people

Europe

4.5M sq miles

- 27 countries in the European Union
- 44 countries in all of Europe



24 official languages
just in the EU

90+ languages
across Europe

250+ including
dialects

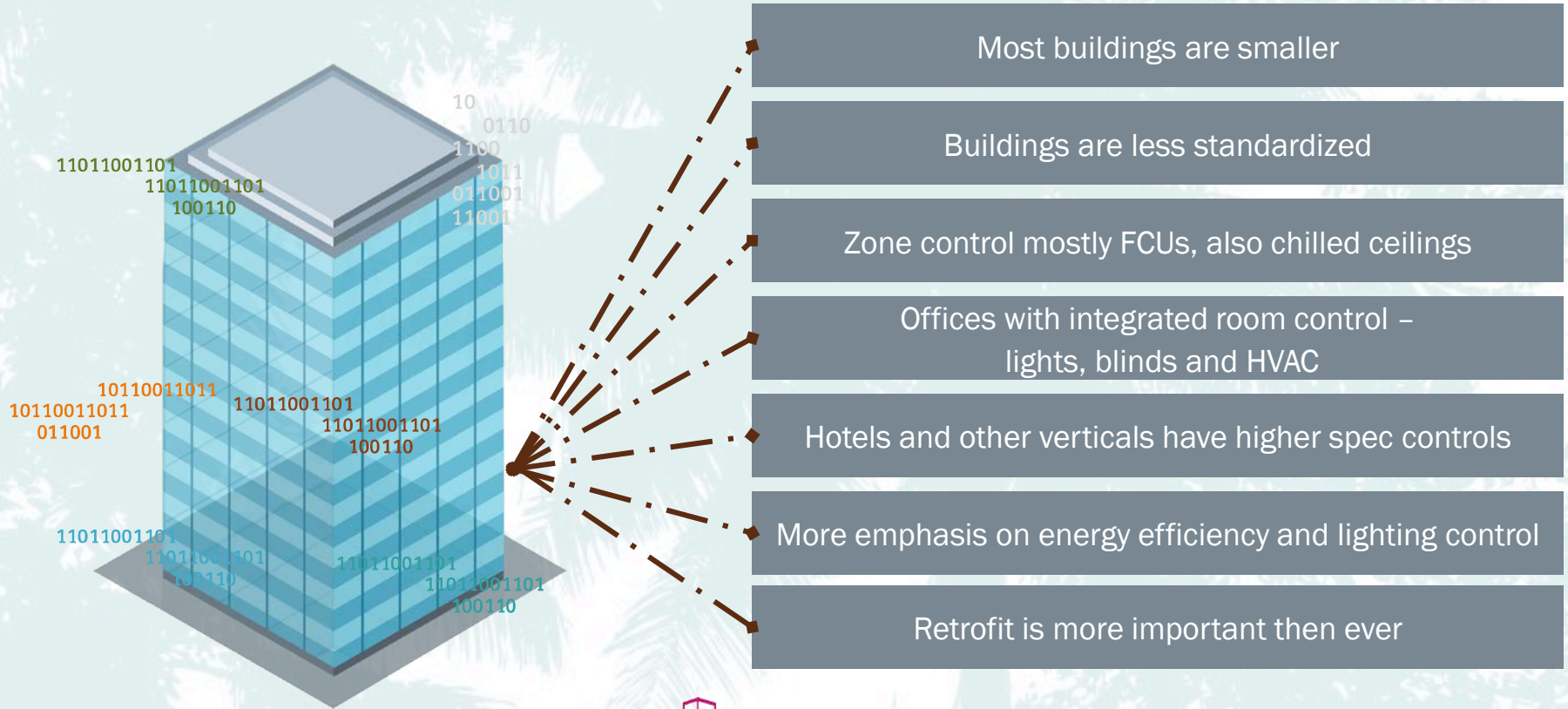


Europe is not Europe, it's diverse

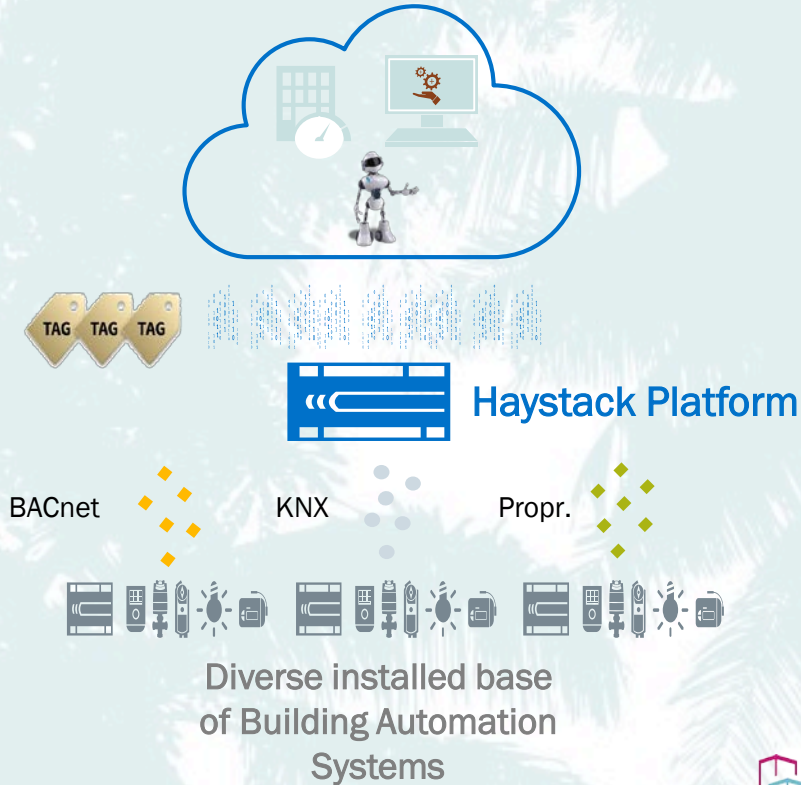
- **Markets are different**
 - varying climates
 - many different traditional ways of working
 - different specification and tendering processes
 - different rates of BIM adoption
 - many automation and other systems manufacturers



Buildings are different from US market

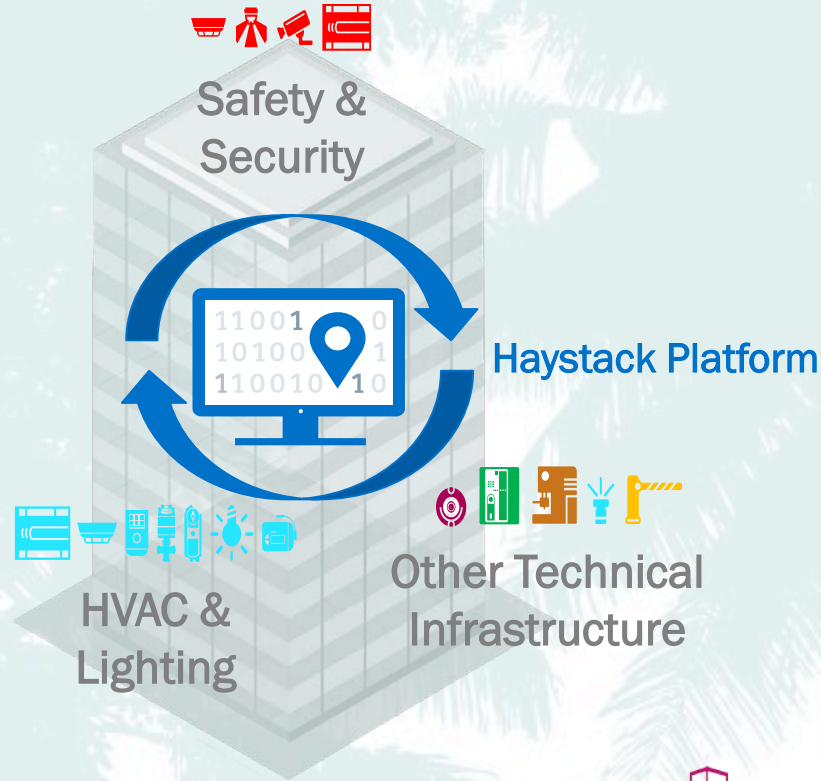


Installed base drives Haystack need



- **Many different vendor systems:** Europe with incredible diversity in its installed based, hundreds of different open and proprietary protocols
- **Cloud applications on the rise:** Optimize particularly installed base with latest software in energy mgmt, maintenance, smart space. Retrofit is king
- **Need for IoT and multi-site integration:** Haystack to overcome the deficits of traditional protocols for IoT and enterprise

Haystack the answer for multi-discipline



- **Multi-Discipline on the rise in many EU countries:** Requirement to integrate disciplines is increasing heavily
- **No common language:** Attempts of existing discipline centric protocols to open for other disciplines in many ways failed
- **Haystack can be the answer:** More abstract discipline agnostic integration through tagging enough for most use cases

So many players and standards



- Many different standards
- New trends evolving:
Cloud, IoT, multi-discipline
- Consolidation and evolution is essential:
Haystack can be at the forefront, also in Europe

Several levers to move Haystack forward

- i. **Manufacturers need to start driving the standard into EU**
- ii. Important to work with existing open standards
- iii. Haystack needs to make it even more transparent for Europeans how the standard is evolving
- iv. Standard needs to integrate European specifics

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Haystack in Europe

- **KNX Alliance**
 - mostly lighting control, but also HVAC, shading and door access



470 KNX Members
8000 Products
470 KNX Training Centres
83000 KNX Partners
190 Countries

Join **us**
www.knx.org



Haystack in Europe

- DALI Digital Illumination Interface Alliance

www.digitalilluminationinterface.org/dali/

- 24 regular members + 123 associate members
- Specifically focused on lighting control

Regular Members (24)

 Acuity Brands Lighting, Inc.	 Cooper Lighting, LLC	 CP Electronics	 DEKRA Certification BV
 Delta Electronics, Inc.	 ERCO GmbH	 ESYLUX Deutschland GmbH	 Helvar Oy Ab
 Ideal Industries, Inc.	 LEDVANCE GmbH	 LEEDARSON Lighting Co. Ltd.	 Lutron Electronics Co.
 OSRAM GmbH	 Panasonic Lighting Europe GmbH	 Siemens Schweiz AG	 Signify Netherlands BV
 Simimtronic Limited	no image provided Simon S.A.	 STEINEL GmbH	 Telensa Ltd.
 Tridonic GmbH Co. Kg.	 TRILUX Group IITZ GmbH	 WAGO Kontakttechnik GmbH & Co. Kg.	 Zencontrol Limited

Haystack in Europe

- **Meter-Bus wired and wireless** - <https://en.wikipedia.org/wiki/Meter-Bus>
 - specifically for gas and electricity and heat metering
- **DLMS – smart metering focused** - www.dlms.com/dlms-cosem/international-standardization

DLMS UA KEY FIGURES



[SEE THE LIST OF OUR MEMBERS](#) →

Haystack in Europe

- LoRa Alliance
 - over 500 members spread across multiple verticals



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Questions?

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