



KNX

**The worldwide STANDARD for
home and building control**

www.knx.org

Content

- **KNX' 10 strong points**
- **KNX facts and figures**
 - KNX members
 - KNX certified training centers
 - KNX certified partners
 - KNX national groups
- **KNX for newbies**
- **KNX activities worldwide**
- **KNX at light + building**
- **KNX and Smart Metering/Smart Grid**
 - KNX and energy efficiency
 - KNX City

KNX: 10 strong points (1)

■ **Manufacturers**

- A technology supported and implemented by SMEs and multinationals worldwide

■ **Strong Association**

- International Association in Brussels and representation in many countries worldwide

■ **Intellectual Property Rights**

- Free for KNX members – No single source technology

■ **Fit for use on different media and in different application domains**

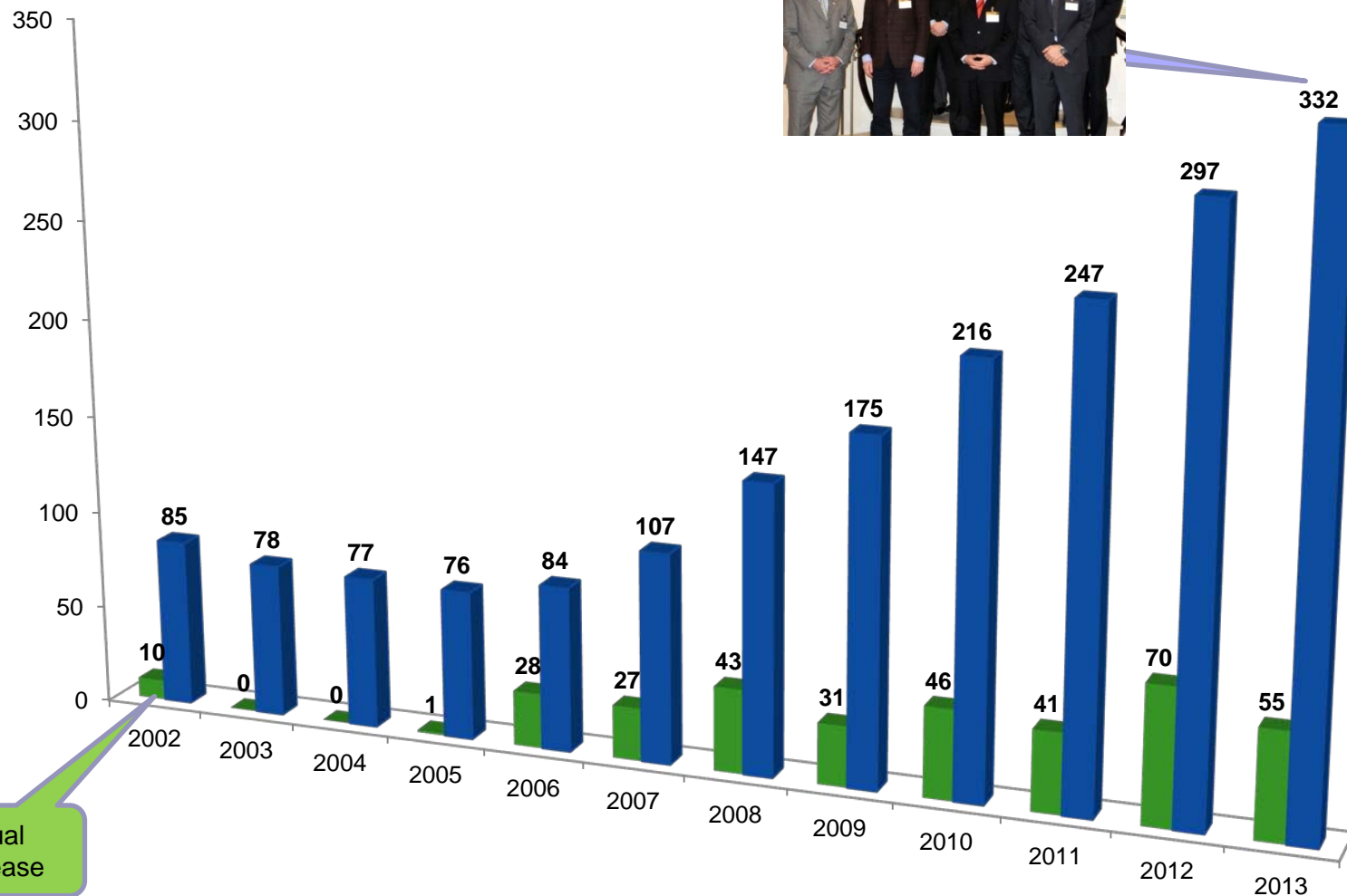
- Twisted Pair, wireless, IP and PL
- Lighting, Façade control, security, any type of zoned HVAC control, Monitoring, Metering, Load shedding, Scheduling, Audio control,

■ **Seamless interoperability**

- Between products of different manufacturers/application domains



Evolution of KNX Members



2013: 55 New Manufacturers from 24 Countries (1)

Australia

Belgium

China

Canada

Germany

Czech Republic

Croatia

Denmark

Greece

India

2013: 55 New Manufacturers from 24 Countries (2)

Italy



New Caledonia



New Zealand



Poland



Singapore



Slovenia



S-Korea



Sweden



Spain



Switzerland



Turkey



UK



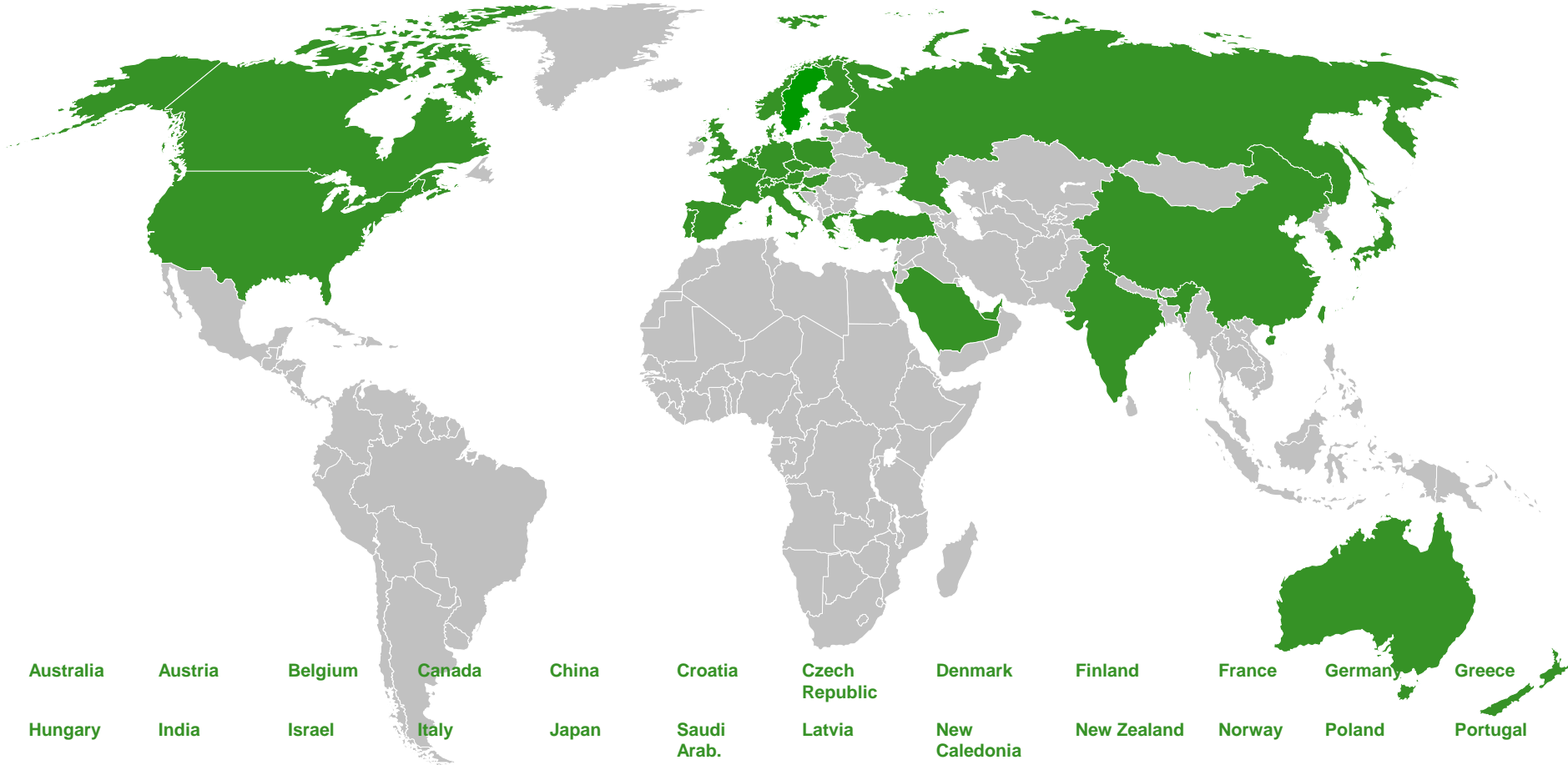
USA



UAE



Currently: 348 Members in 37 countries



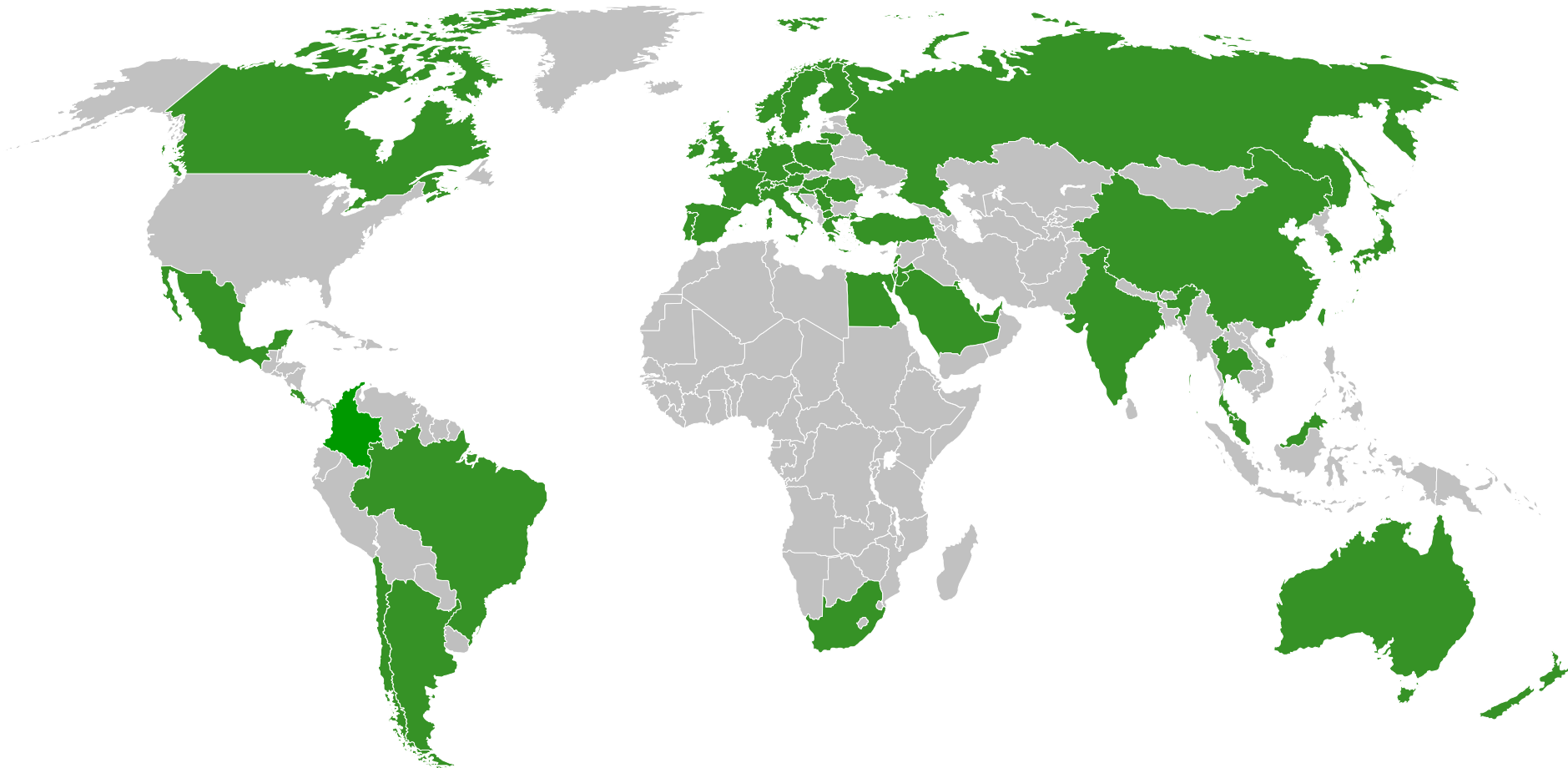
- | | | | | | | | | | | | |
|-----------|-----------|----------|---------|-------|-------------|----------------|---------------|-------------|--------|---------|----------|
| Australia | Austria | Belgium | Canada | China | Croatia | Czech Republic | Denmark | Finland | France | Germany | Greece |
| Hungary | India | Israel | Italy | Japan | Saudi Arab. | Latvia | New Caledonia | New Zealand | Norway | Poland | Portugal |
| Russia | Singapore | Slovenia | S-Korea | Spain | Sweden | Switzerland | Taiwan | Netherlands | Turkey | UAE | UK |

USA

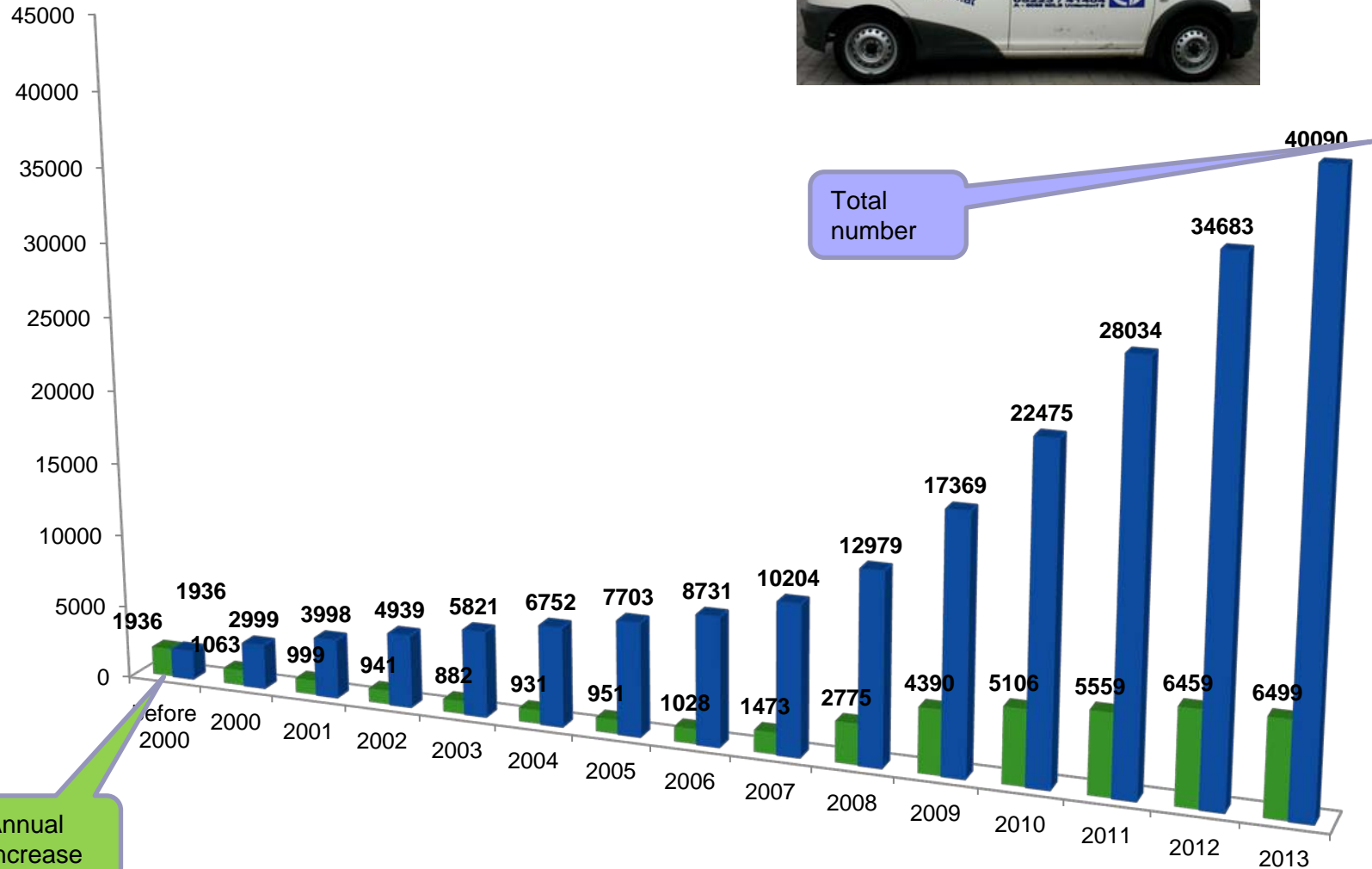
Evolution of KNX Training Centres



Currently: 291 Training Centres in 54 countries

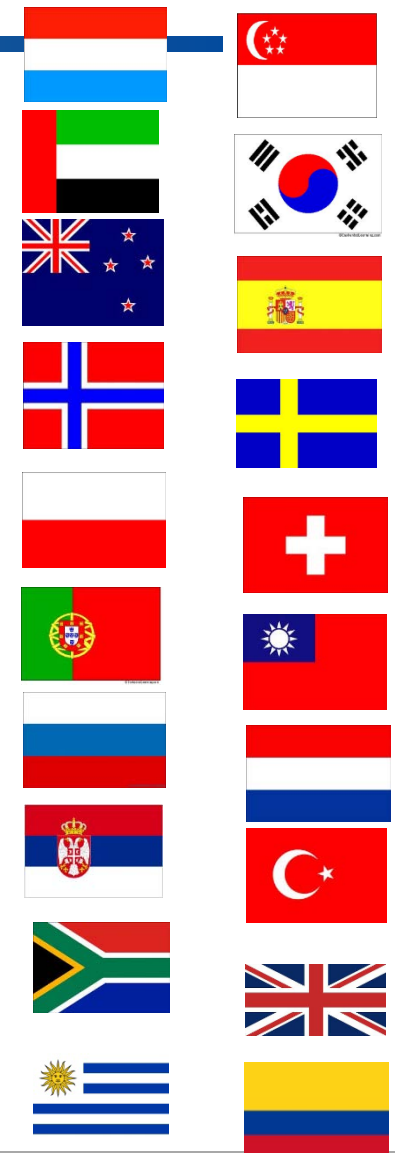


Evolution of KNX Partners





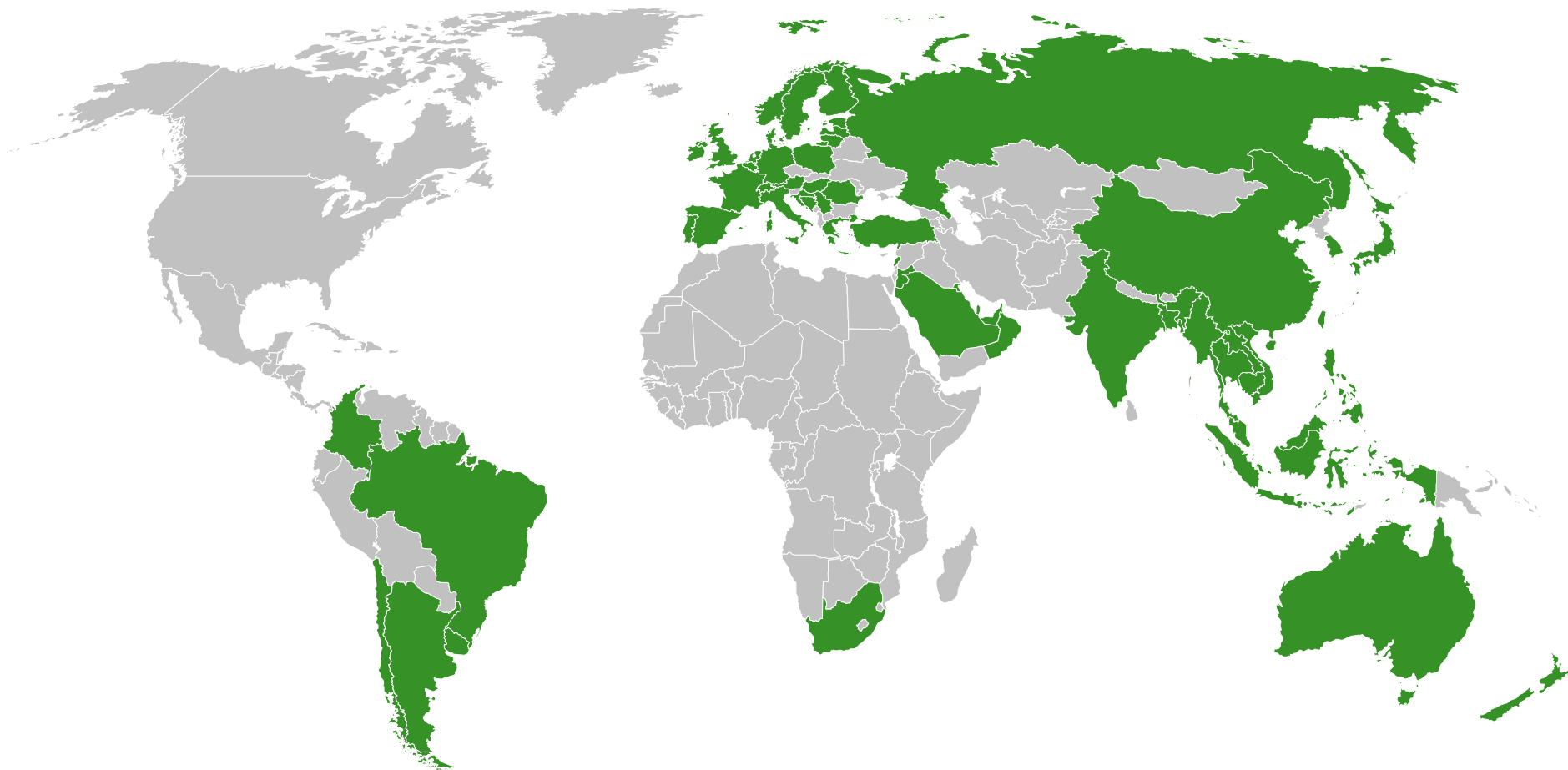
Local representation of KNX: 40 KNX National Groups



No 41: KNX Japan! 

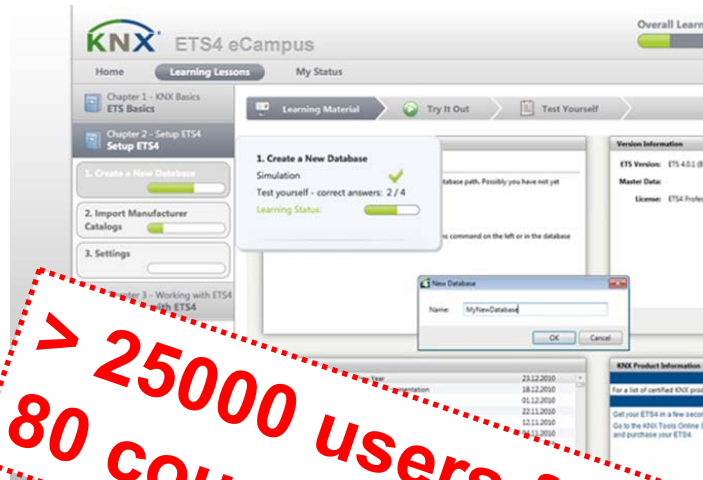


KNX National Groups: worldmap

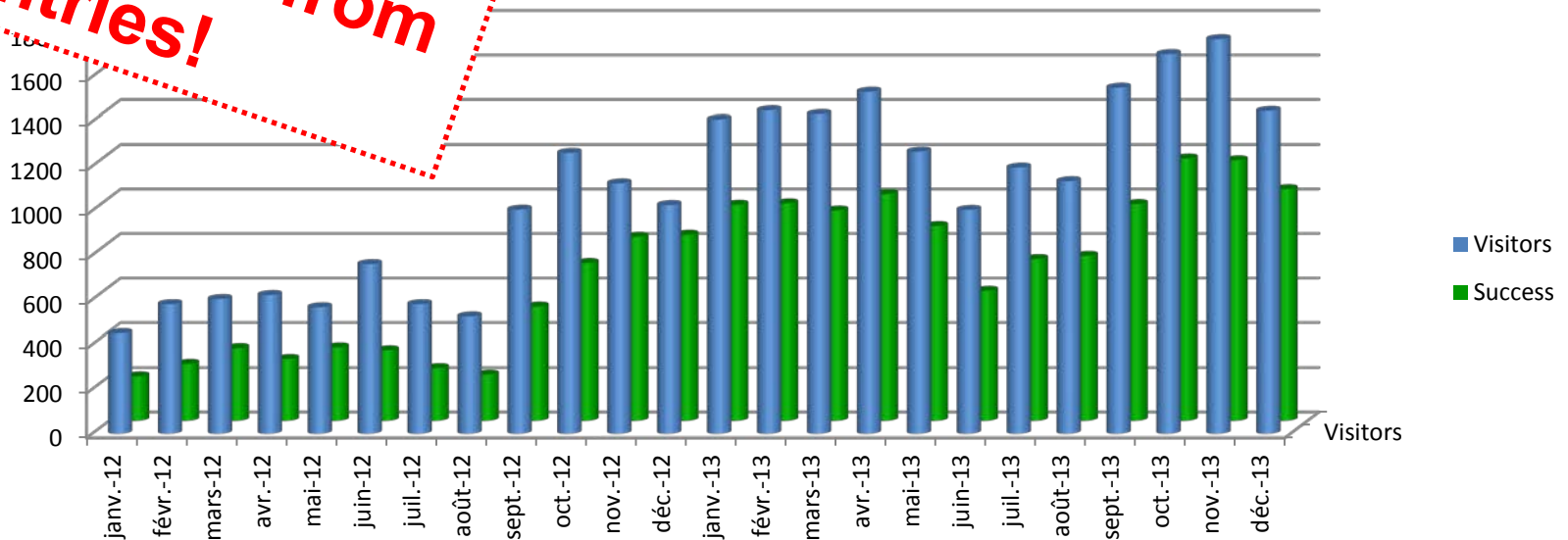


ETS eCampus: a clear success!

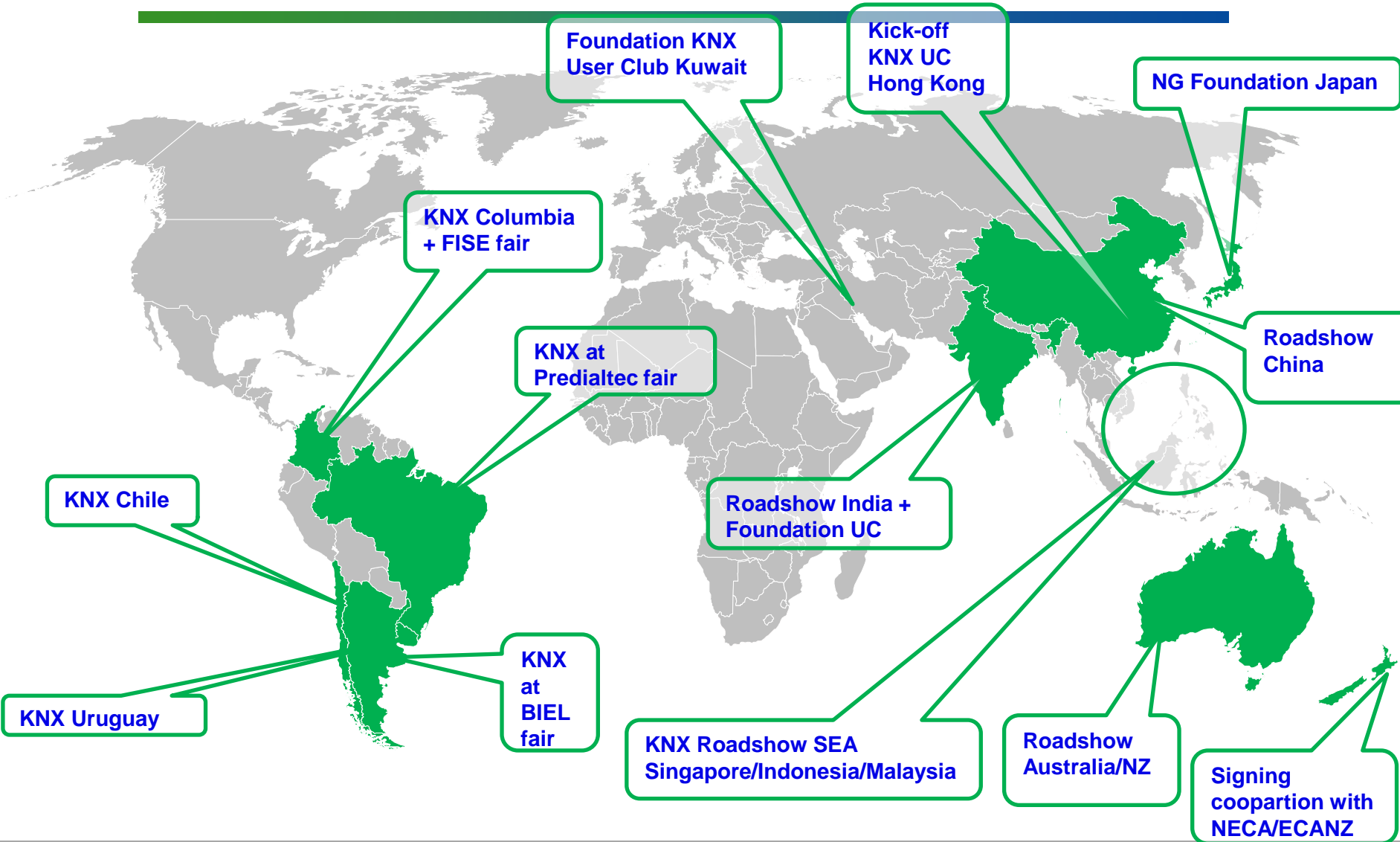
- Get acquainted with KNX and ETS quick and easy!
 - Reduced effort:
 - on average 2 hours
 - Free of charge
 - For each chapter: exercise + test
 - When passed: eCampus certificate + ETS 4 Lite



> 25000 users from 80 countries!



Recent KNX Internationalisation activities



Recent KNX activities worldwide



*KNX at ish
Frankfurt 0313*



*GB/T standardization ceremony
0513 Beijing*



*KNX Forum – Smart Grid
Exhibition Japan - 0213*



3rd KNX Colloquium KNX DE



KNX at Worldskills Leipzig 0713

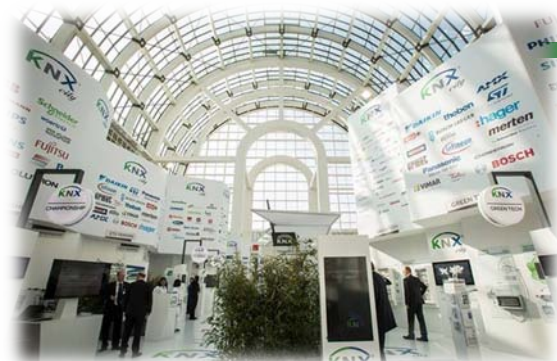


KNX Forum Brazil



*KNX Roadshow India 0913 –
Puna, New Delhi, Kolkata,
Chennai*

light+building 2014: KNX booths



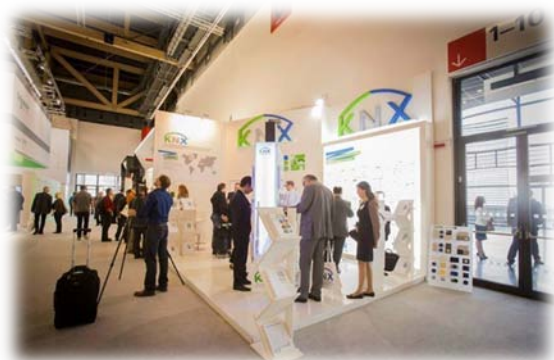
KNX city - Galleria



*KNX Member Community booth
Hall 8*



*Joint booth with
ZVEI/ZVEH in Hall 9 –
showing applications*



Satellite Booth Hall 11

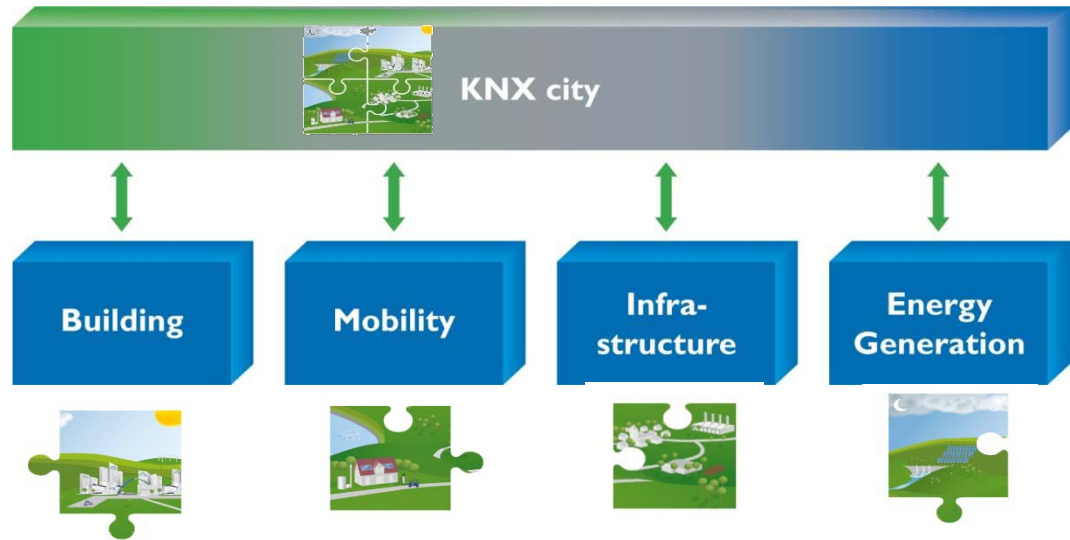
- **Member presence**
 - > 100 KNX member companies represented with own booth
- **KNX Booths**
 - Main booth: KNX city in Galleria South – 700 m²
 - Hall 8 (F98) – International Member Community Booth
 - Hall 9.0 (B30): Joint booth with ZVEI /ZVEH– Energy Efficiency Prize 2014 - Applications
 - Hall 11.1 (C92) – Satellite booth incl. member presentations
- **Other KNX presence:**
 - ZVEH – KNX based eHouse Hall 8.0 J60
 - BZL – Young Electrician KNX contest - Hall 9.1 D18

Improve energy efficiency with KNX

- **Scientific studies (HS Bremen, TU Trento)**
 - Up to **50%** energy reduction compared to conventional installation techniques in a well insulated building
- **Calculate effect of KNX on energy efficiency by tools of KNX members**
- **KNX controlled HVAC applications**
 - KNX Room Controllers
 - KNX Schedulers
 - Presence Detectors
 - Window Contacts
 - CO2 sensors
- **KNX Controlled Lighting**
 - Daylight intensity sensors
 - Presence Sensors
- **KNX controlled Sun Shading**
 - Weather stations
 - Blind actuators
- **KNX Smart Metering/Smart Grid**



New KNX Publications



Demand Side Management = adjustment of loads or energy generation in buildings depending on e.g. smart grid events
Discussion topic in many international standardization committees
Paper shows that KNX can be used to technically realize demand response in homes and buildings
Document is part of the bigger concept 'KNX City'

Why wait? check it out!

- **Participate in (free of charge) KNX eCampus**

- <https://onlineshop.knx.org>
- Online course to acquaint with principles of KNX/ETS



- **KNX Handbook for Home and Building Control**

- Available in Dutch from KNX Holland (25 €/copy) – Contact info@knx.nl



- **Visit KNX basic course at KNX certified training center**

- <http://www.knx.org/knx-partners/training-centres/list/>





**Thank you for your
attention!**

**Contact: info@knx.org –
www.knx.org**

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