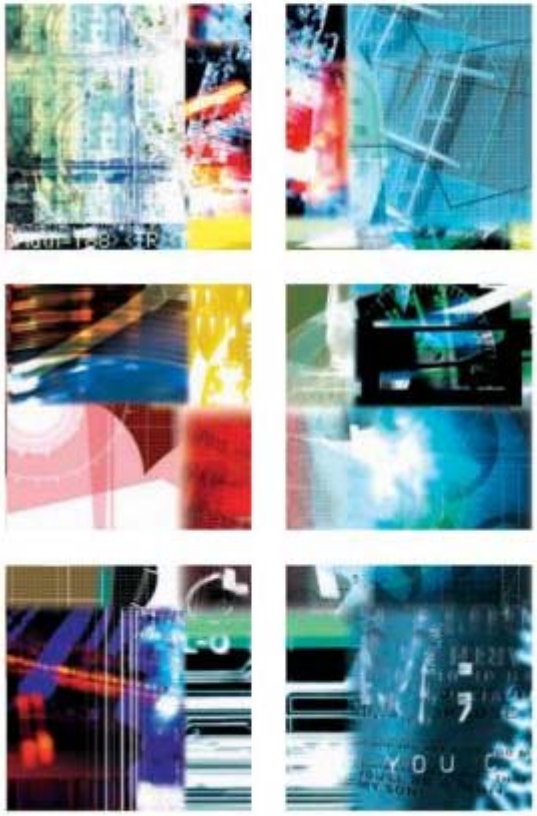

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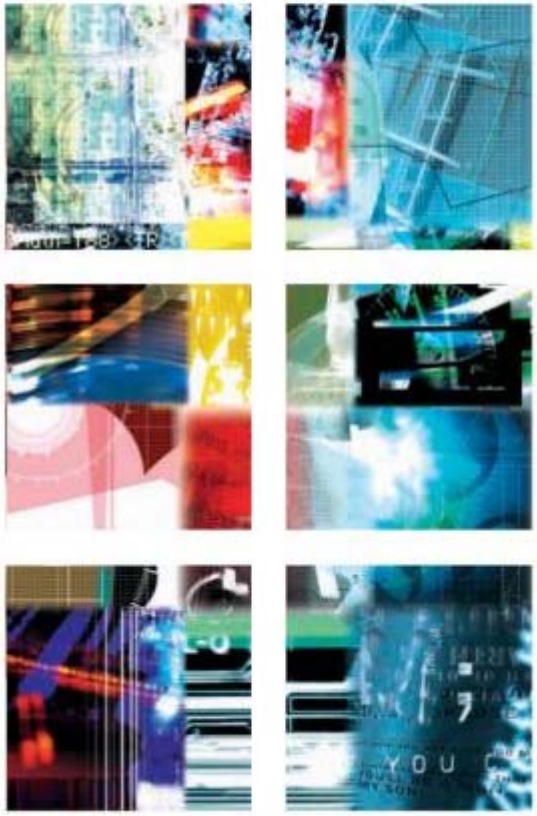
KNX:

The worldwide STANDARD for Home and Building Control



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KNX Facts and Figures

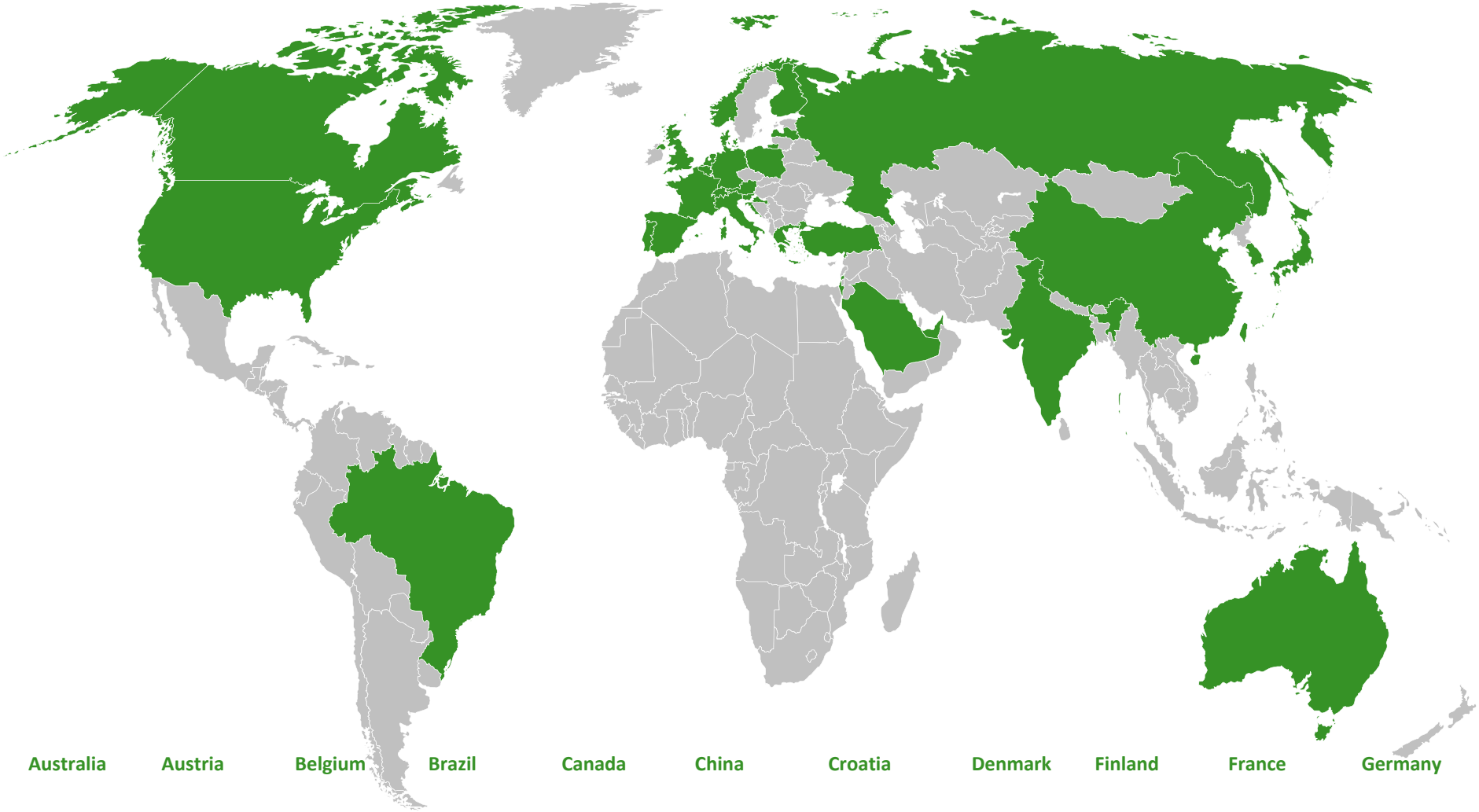
-

September 2012

- 301 KNX Members in 33 countries
- 7101 certified product groups
- 34105 KNX Partners in 117 countries
- 235 Training Centers in 45 countries
- 85 Scientific Partners in 25 countries
- 10 User clubs in 9 countries
- 6 Associated partners
- 32 National Groups
- ETS sold in 106 countries

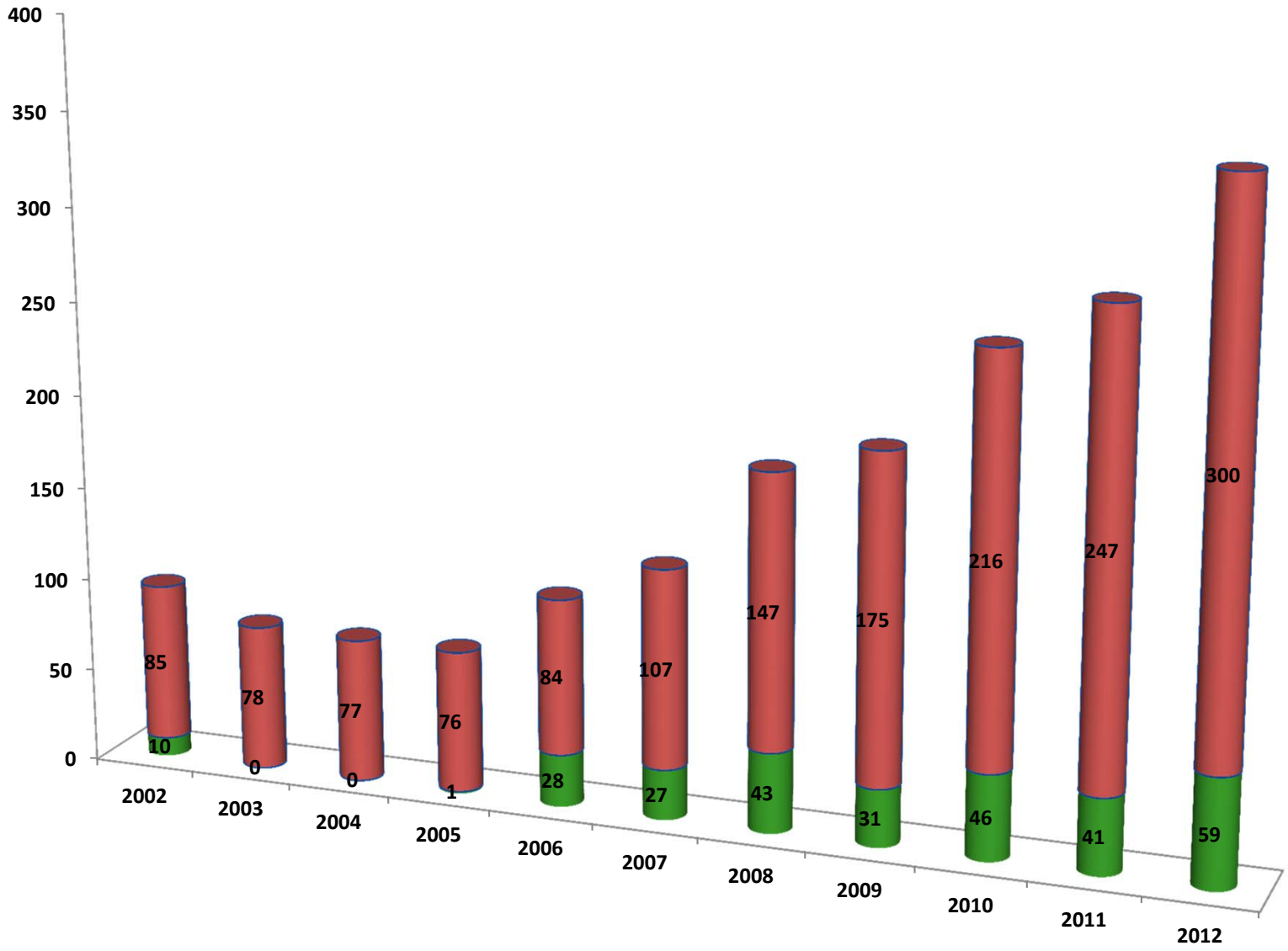
301 KNX Members in 33 countries

301 KNX Members in 33 countries



Australia	Austria	Belgium	Brazil	Canada	China	Croatia	Denmark	Finland	France	Germany
Greece	India	Israel	Italy	Japan	Saudi Arab.	Latvia	Norway	Poland	Portugal	Russia
Singapore	Slovenia	S-Korea	Spain	Switzerland	Taiwan	Netherlands	Turkey	UAE	UK	USA

Evolution of KNX Members



Albania
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Brazil
Brunei
Bulgaria
Canada
Chile
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Colombia
Costa Rica
Croatia
Cyprus
Czech Republic
Denmark
Dominican Republic
Ecuador

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Estonia
Ethiopia
Faroe Islands
Finland
France
French Polynesia
Georgia
Germany
Gibraltar
Greece
Guadeloupe
Guatemala
Hong Kong
Hungary
Iceland
India
Indonesia

Korea, Republic of
Kuwait
Kyrgyzstan
Latvia
Lebanon

Liechtenstein
Lithuania
Luxembourg
Macedonia
Malaysia
Maldives
Malta

Nepal
Netherlands

Palestine
Panama
Paraguay
Peru
Philippines

Poland
Portugal
Qatar
Réunion
Romania
Russian Federation
Saudi Arabia
Serbia
Singapore
Slovakia
Slovenia
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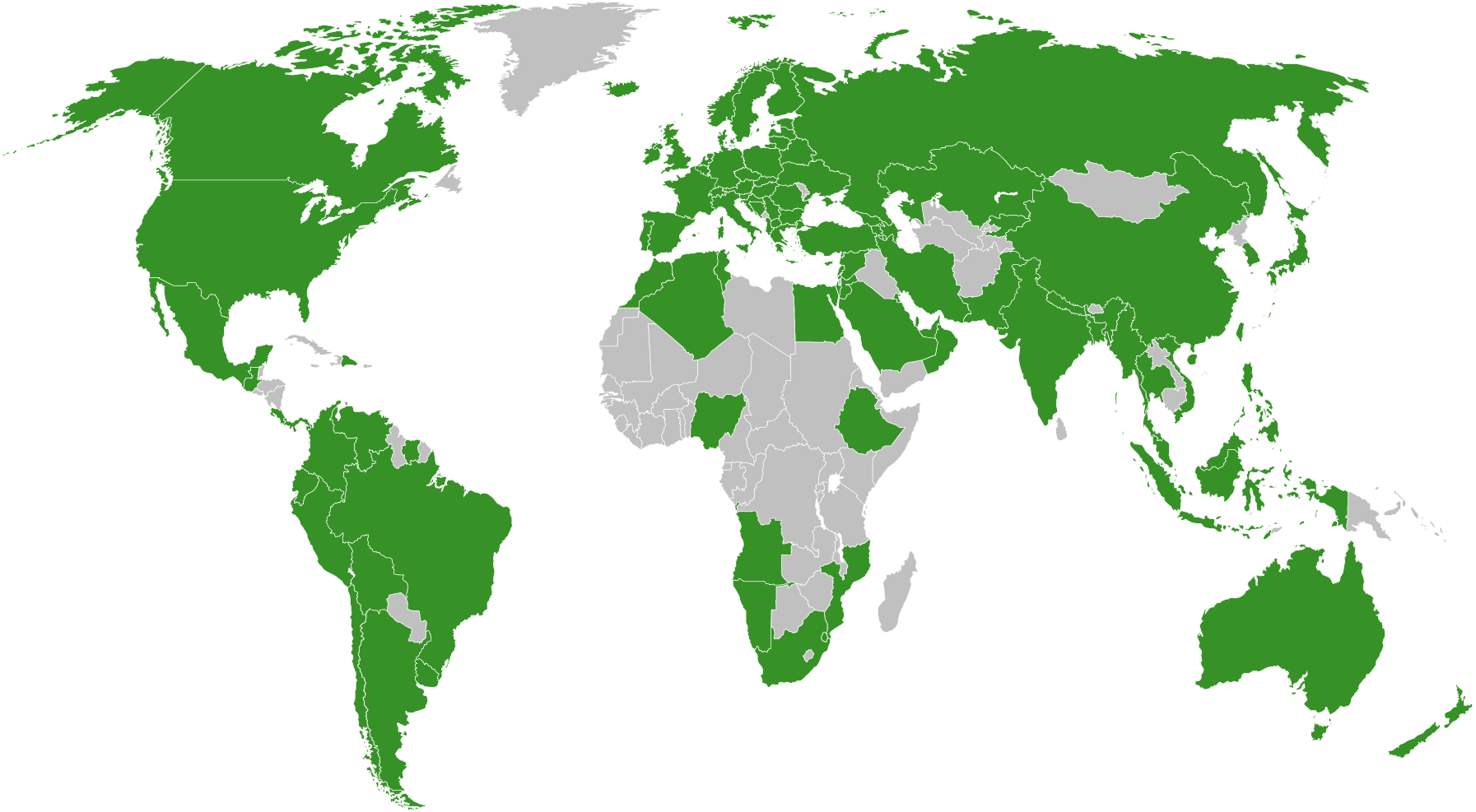
Spain
St Kitts and Nevis
Suriname
Swaziland
Sweden
Switzerland

Republic
of China)

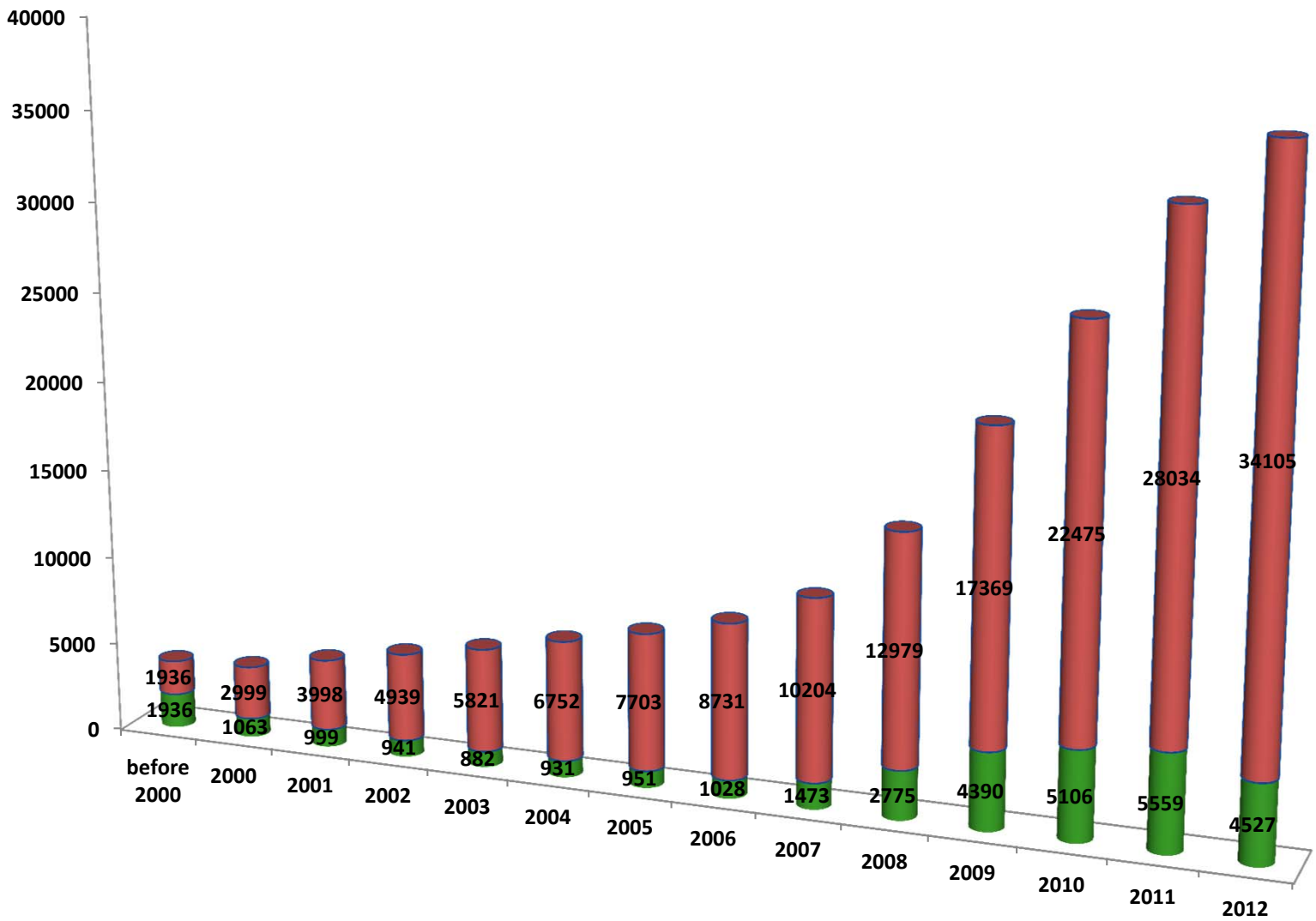
United Arab Emirates
United Kingdom
United States
Uruguay
Venezuela
Vietnam

34105 KNX Partners in 117 countries

34105 KNX Partners in 117 countries



Evolution of KNX Partners



Argentina
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Macedonia

Malaysia
Mexico
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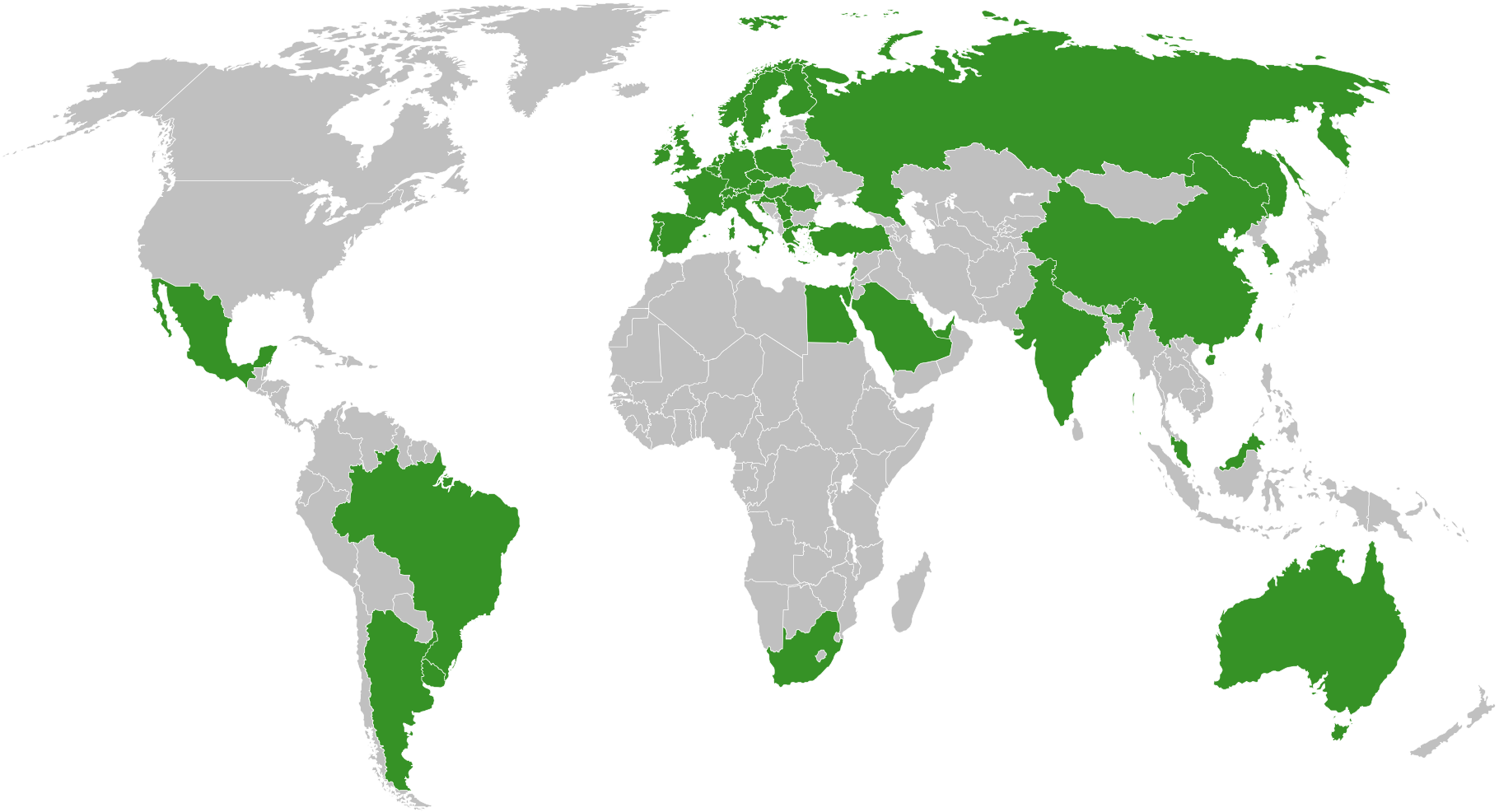
Serbia
Singapore
South Africa
South Korea
Spain

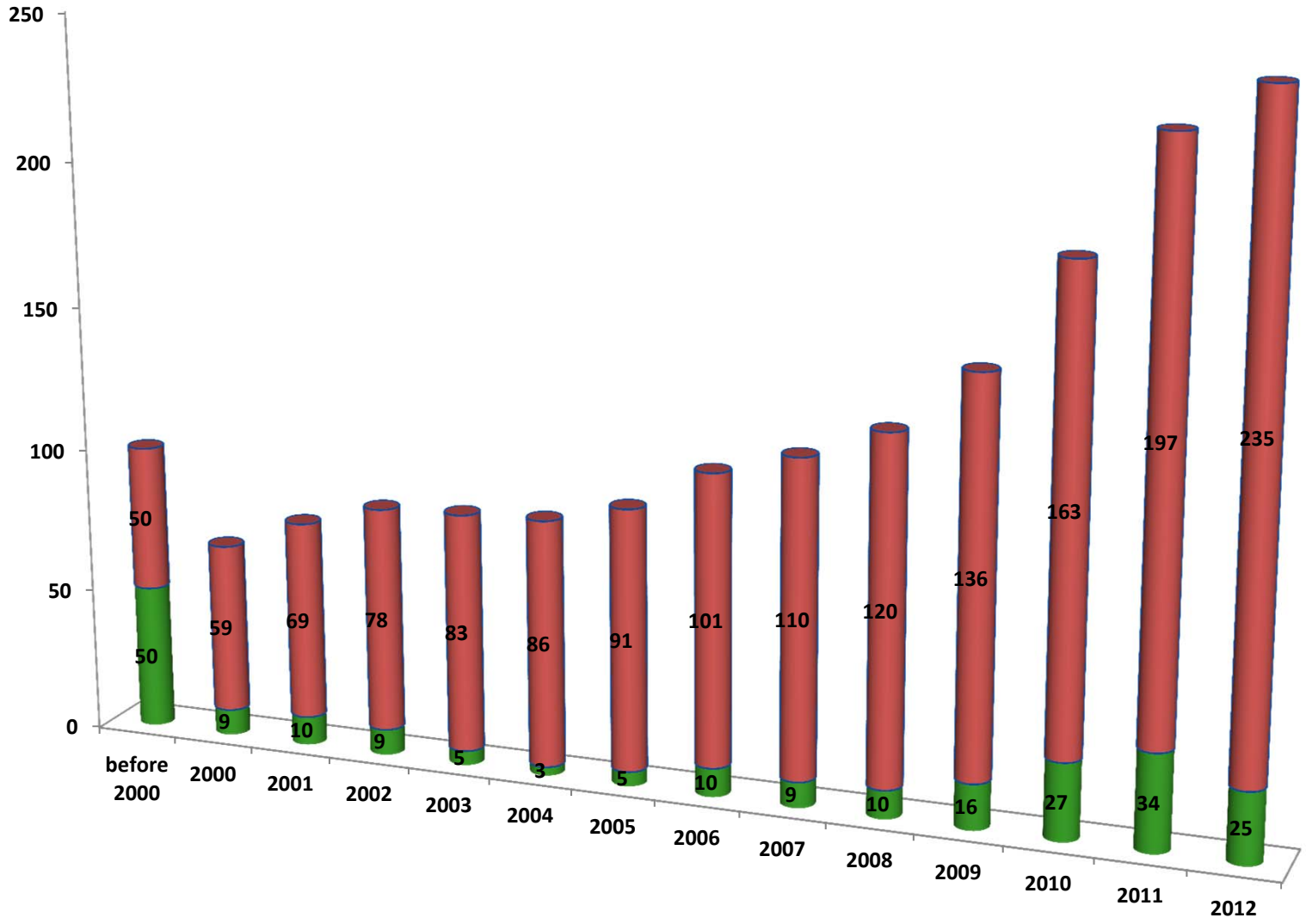
235 Training Centres in 45 countries

UAE
United Kingdom
Uruguay

235 Training Centres in 45 countries



Evolution of KNX Training Centres



Australia

Austria

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Ireland

Italy

Netherlands

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and

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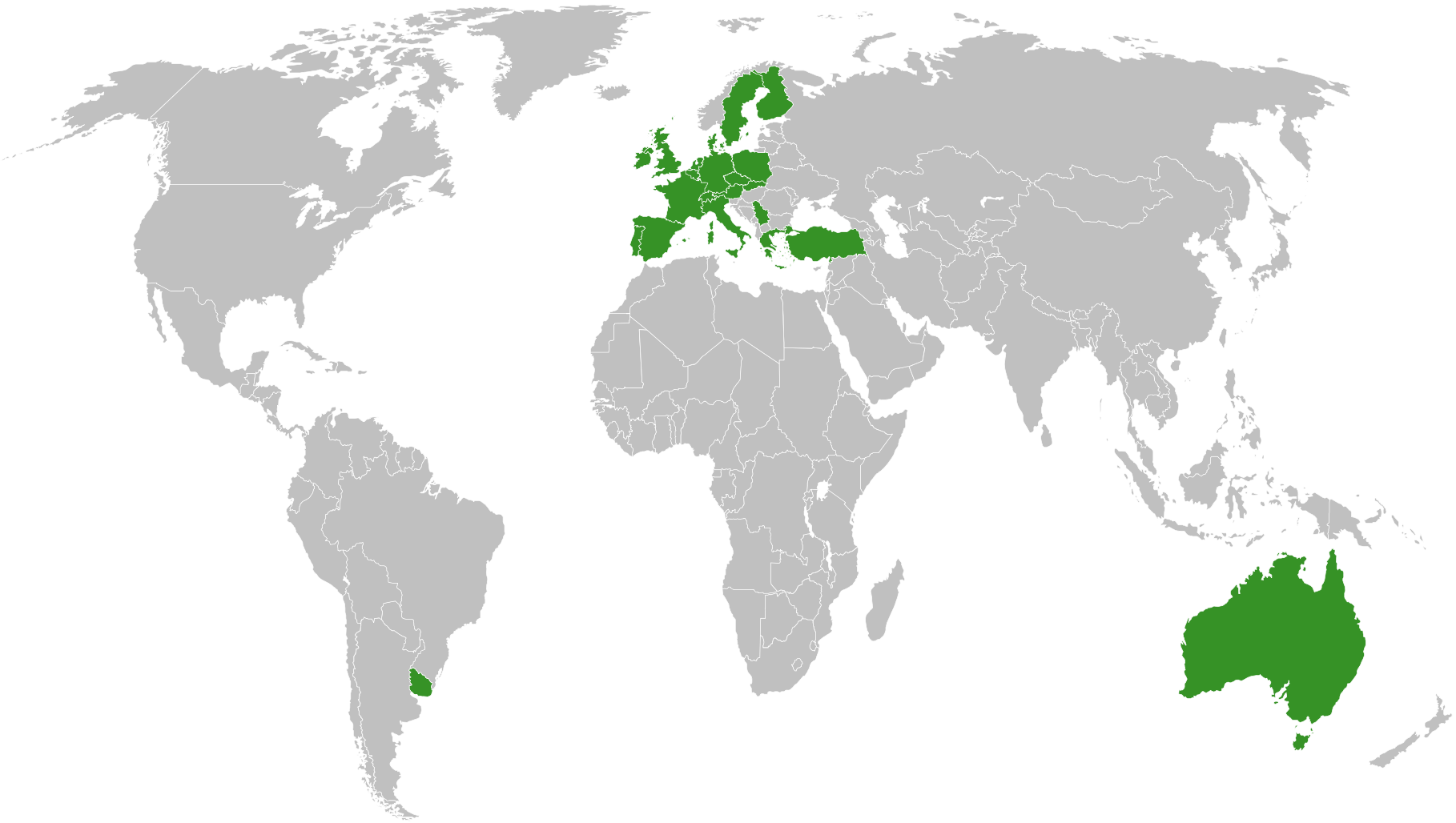
United Kingdom

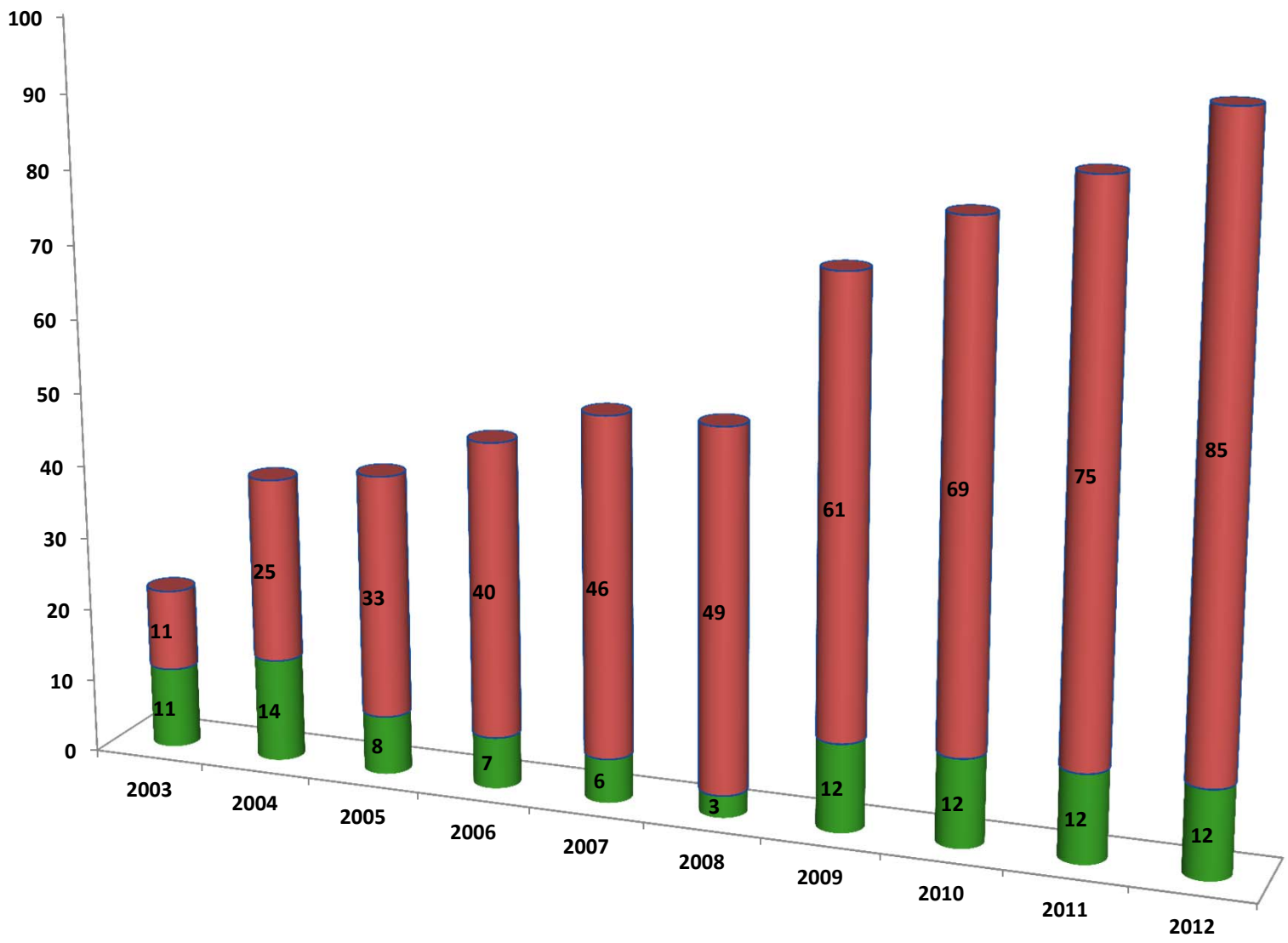
Uruguay

85 Scientific Partners in 25 countries

85 Scientific Partners in 25 countries



Evolution of KNX Scientific Partners



Austria

Belgium

CIS and Baltic

Croatia

Denmark

Germany

Spain

Sweden

The Netherlands

10 Userclubs and Professionals in 9 countries

6 Associated Partners

32 National Groups

Australia

Austria

Baltics

Belgium

Bosnia and Herzegovin

Brazil

China

Croatia

Denmark

F

F

Germany

Greece

Hungary

Luxembourg

India

Ireland

Italy

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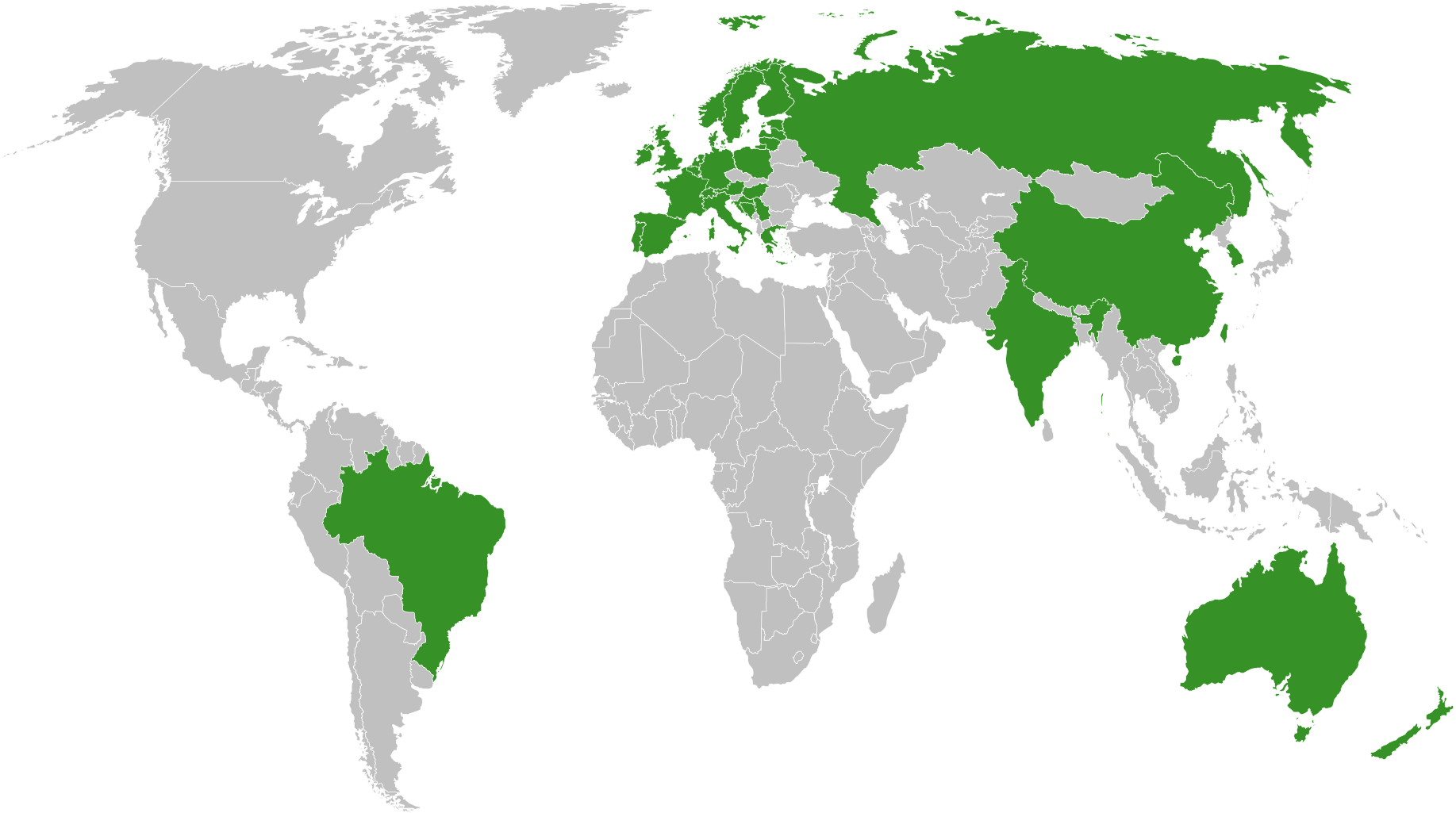
Taiwan

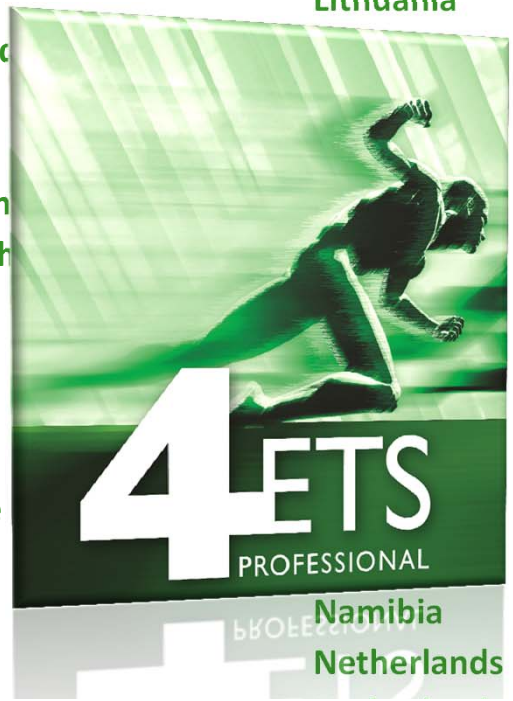
The Netherlands

United Kingdom

National groups in 32 countries



ETS Licenses sold in 106 countries



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Colombia
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Denmark
Egypt
Estonia
Faeroe Islands
Finland
France
French Polynesia
French South
Gabon
Georgia
Germany
Greece
Guadeloupe
Hungary
Iceland
India
Japan
Jordan
Kazakhstan
Korea, Republic of
Kuwait
Latvia
Lebanon
Liechtenstein
Lithuania
Namibia
Netherlands
Norway
Pakistan
Philippines
Poland
Portugal
Qatar
Réunion
Romania
Russian Federation
San Marino
Saudi Arabia
Serbia
Singapore
Slovakia
Slovenia
South Africa
Spain
Suriname
Swaziland
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Tunisia
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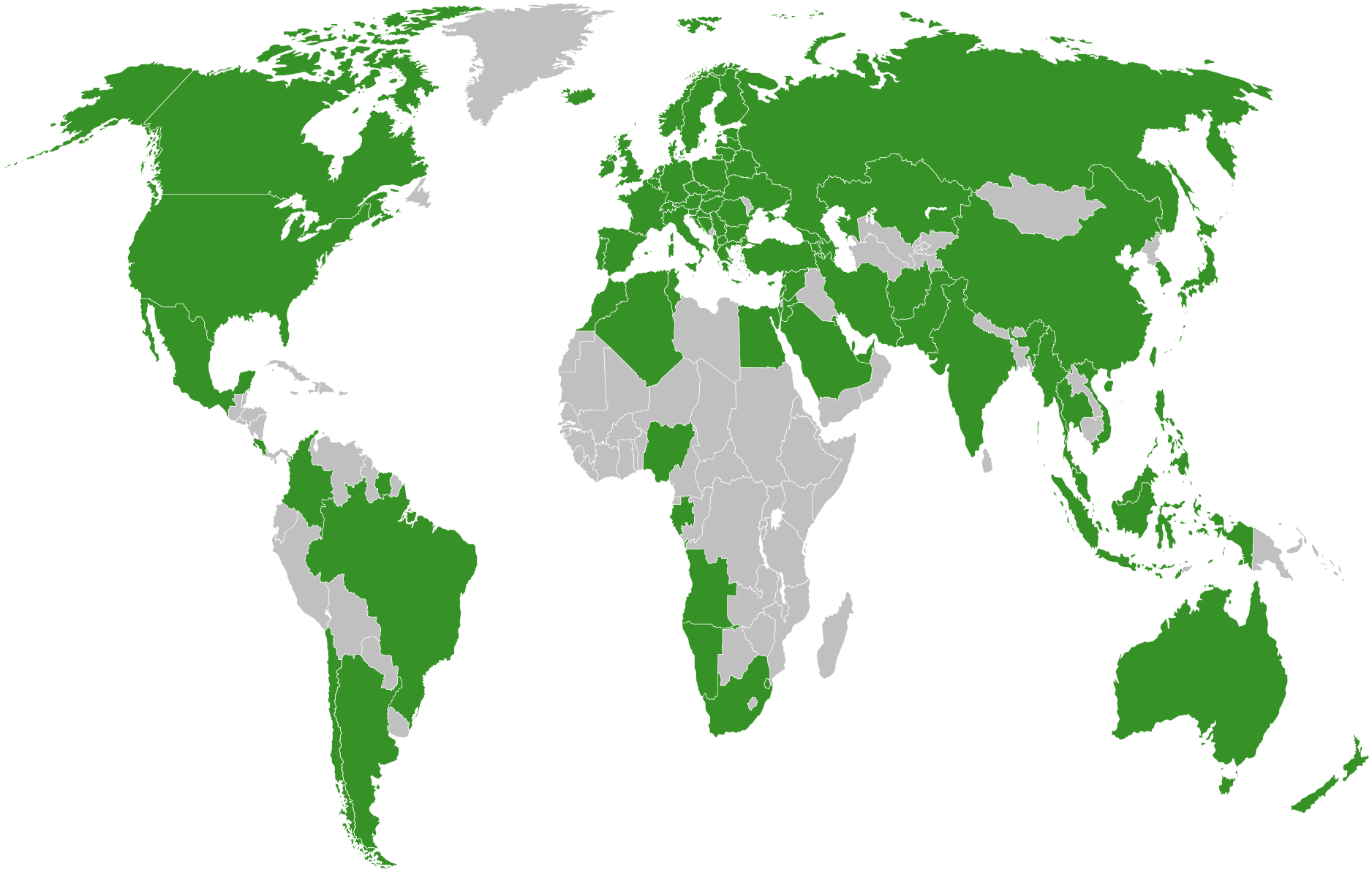
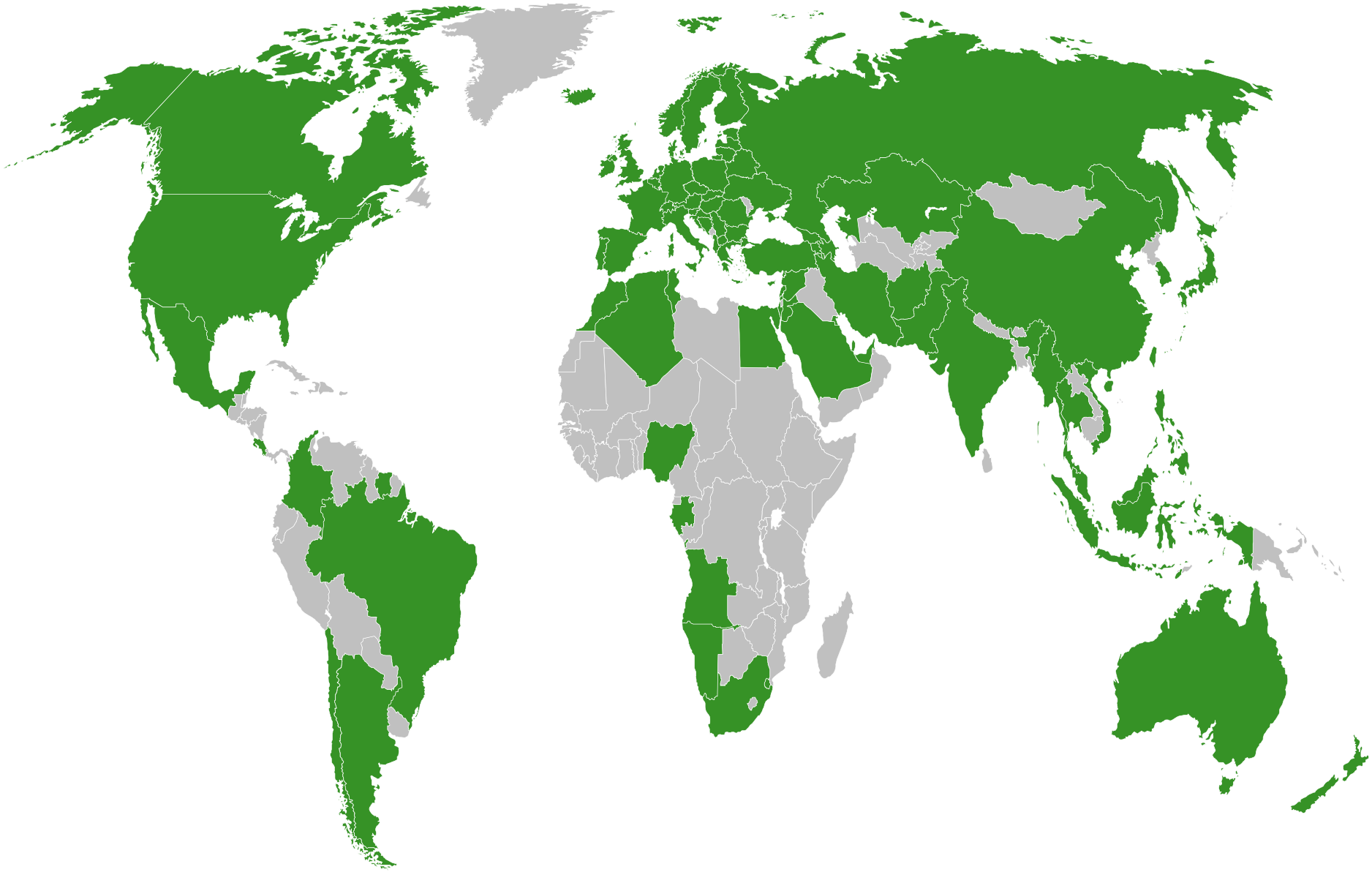
Ukraine
United Arab Emirates
United Kingdom
United States
Vietnam

ETS licenses sold in 106 countries



KNX projects in 106 countries worldwide



Application areas of KNX

Energy Efficiency with KNX

Energy Savings with KNX

- **up to 40 %**
  with KNX shading control
- **up to 50 %**
  with KNX individual room control
- **up to 60 %**
  with KNX lighting control
- **up to 60 %**
  with KNX
  ventilation control

Electricity for the City of Salzburg *(Austria)*

The largest building in the Middle East

Oundle School, Peterborough *(Great Britain)*

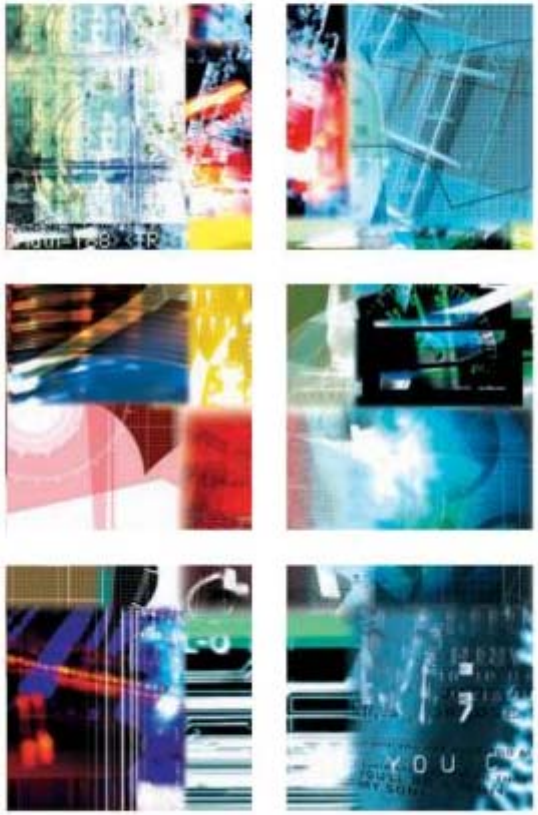
A family home in low energy standard in Innsbruck *(Austria)*

A new bioclimatic office building in Huesca *(Spain)*

Energy efficiency in Guarda Polytechnic Institute

Improved energy balance in insurance company (Prague)

Nerocubo Hotel in Italy



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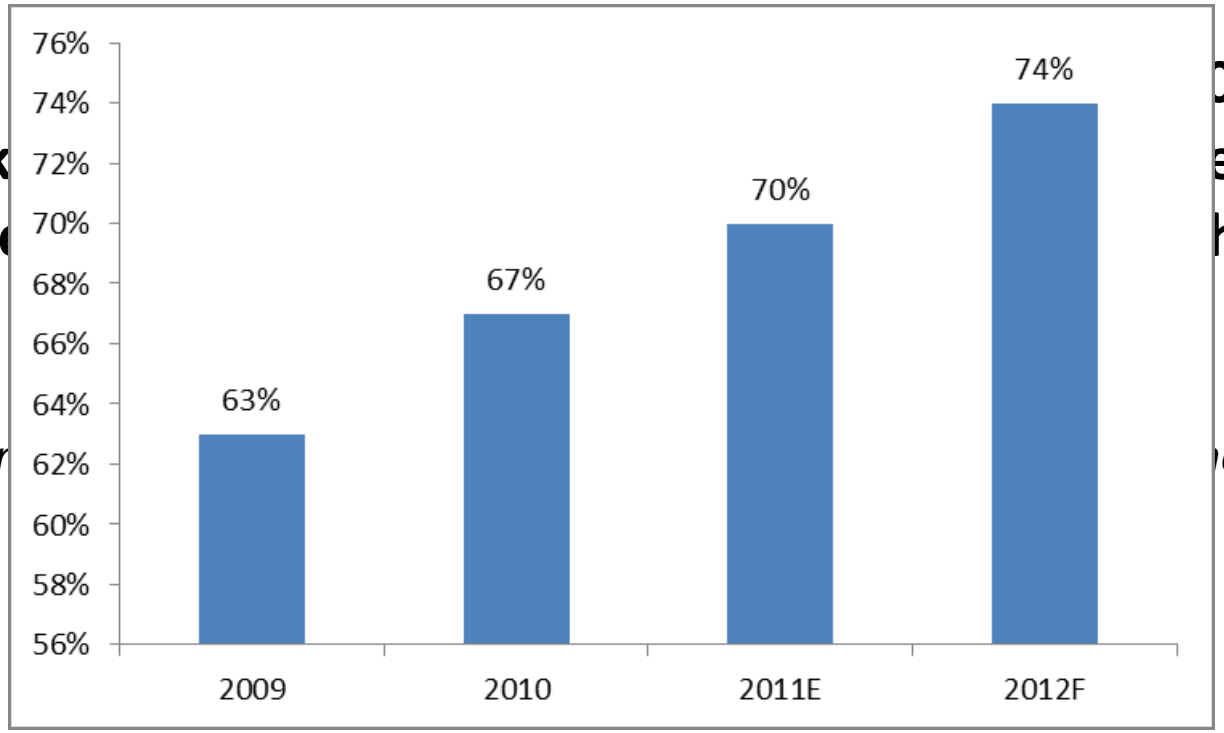
European Smart Home Market Study
- BSRIA-

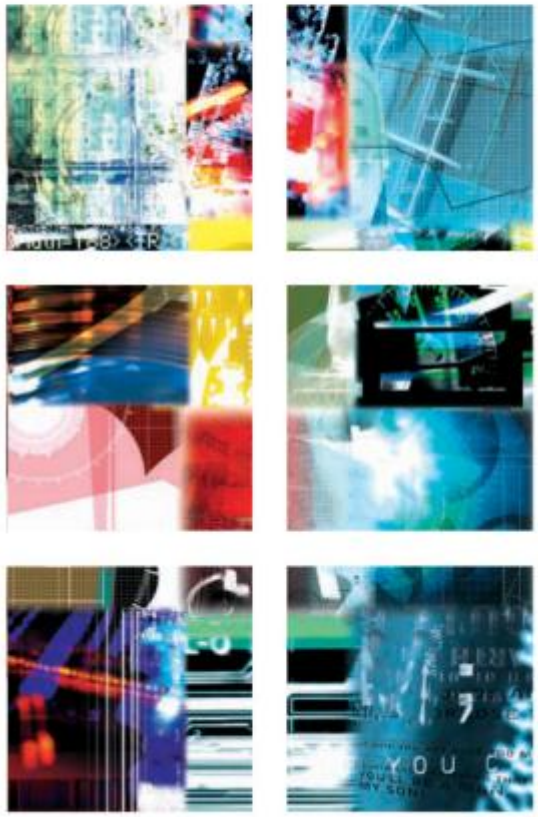
European Smart Home Market Study
- BSRIA-

Share of KNX in the total smart home market value

„In 2011 0% of the total mark e has been adding thre he growing

(„BSRIA - Sr e 20, 2012)





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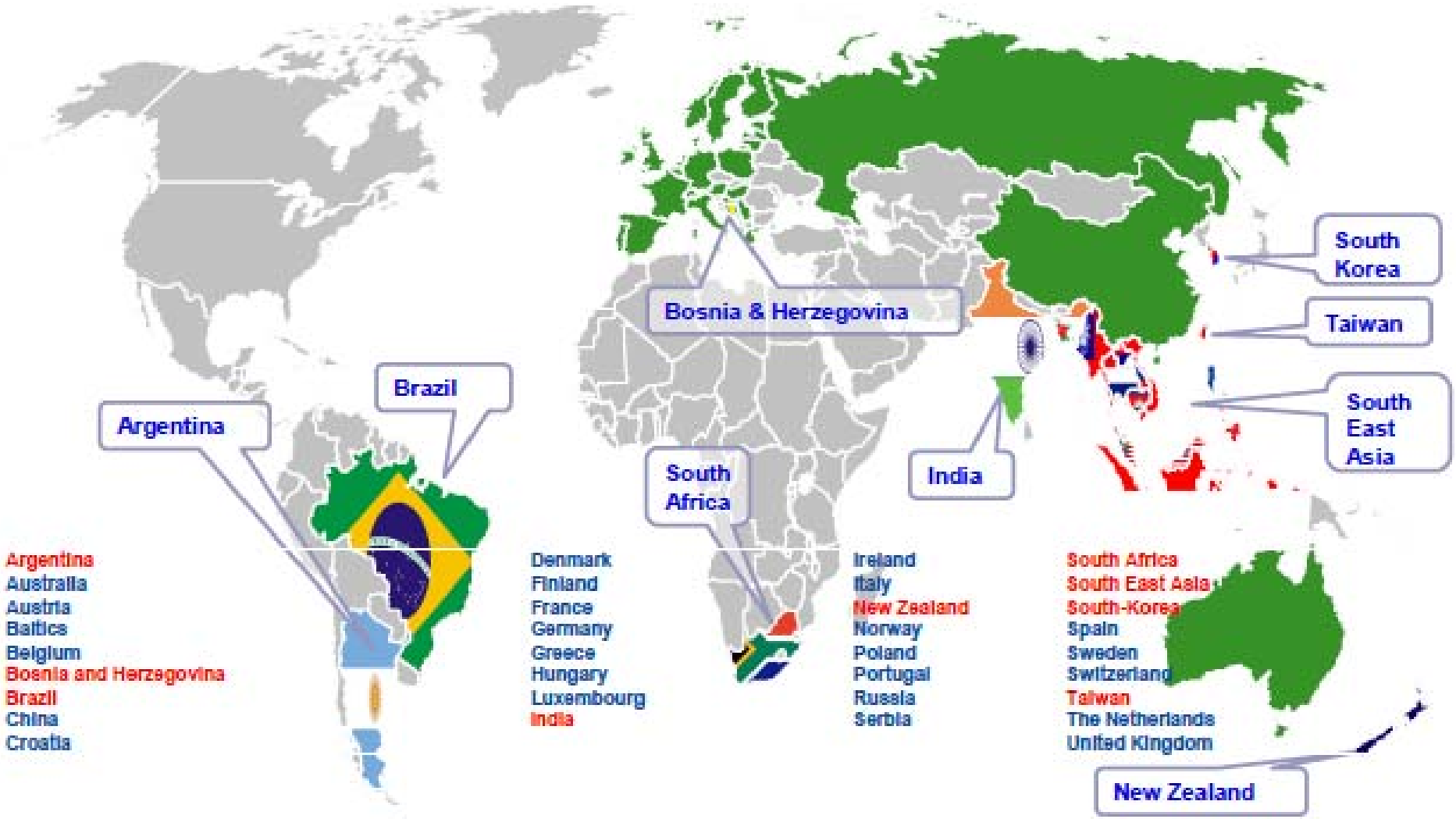
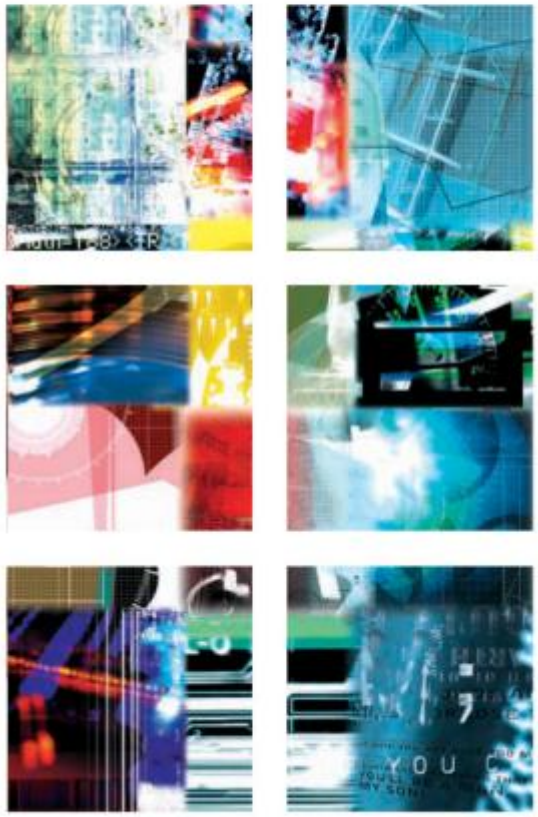
How is it the Internationalization of KNX?

From Europe to Asia

The internationa-
lization of Home
and Building
control in Asia

32 KNX NG World wide





The Future of Home and Building Automation

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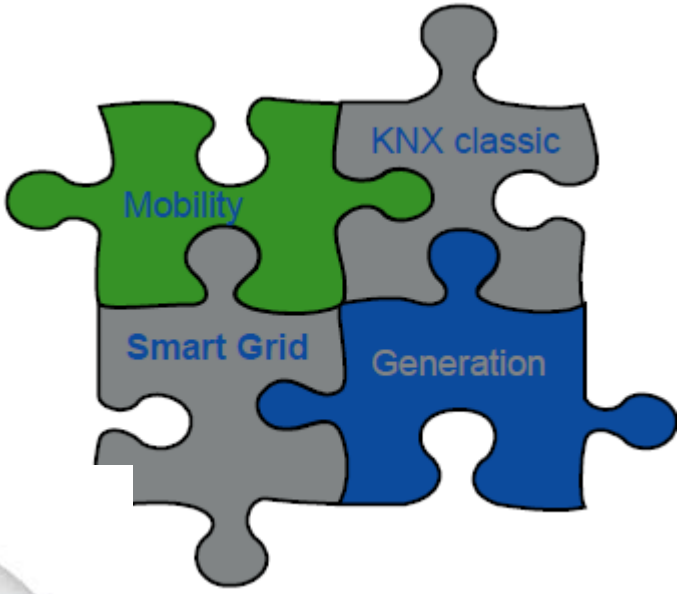
From the Building to the Smart City

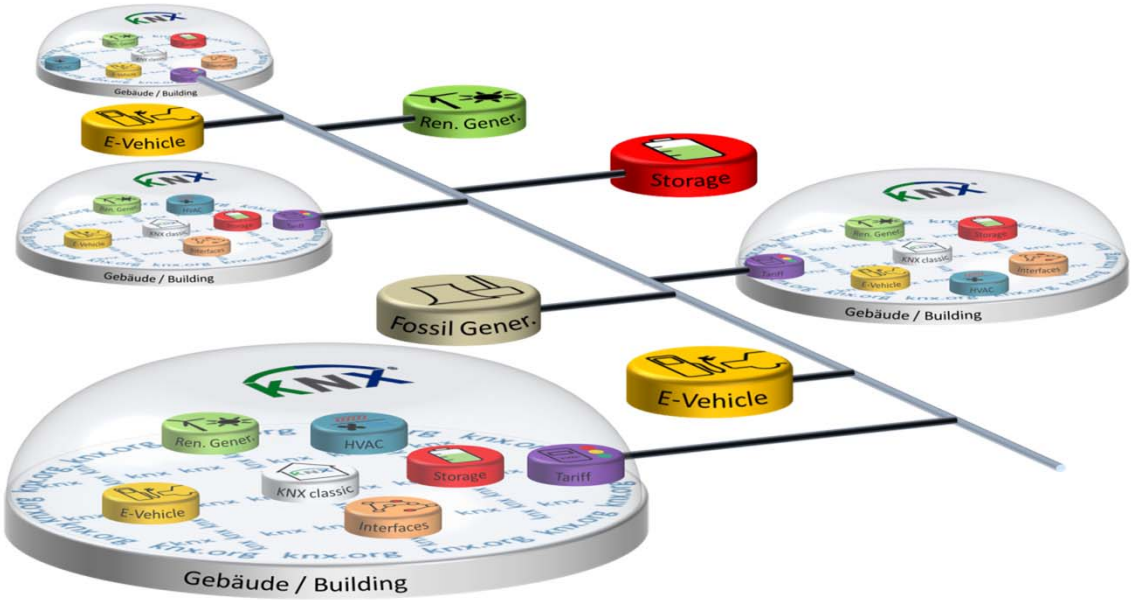
A “Single solution” doesn’t meet Smart city objectives.
Therefore, a Smart city solutions shall

- be combined
- interact with Smart Grid
- offer interfaces to the grid
- focus on the total building environm
- involve
- …



The solution: Smart Cities

The KNX city initiative brings mobility, building, infrastructure and energy generation with a single communication together.



Building

Building and users have the need to control

- Energy actuators ➔ allow to measure consumption as well as switch individual electric loads
  - Finding source of high energy consumption!

- Intelligent household meters with connection to KNX

- Displays ➔ visualize energy consumption to the inhabitants – inform on current tariff – data available in the home/building

Mobility

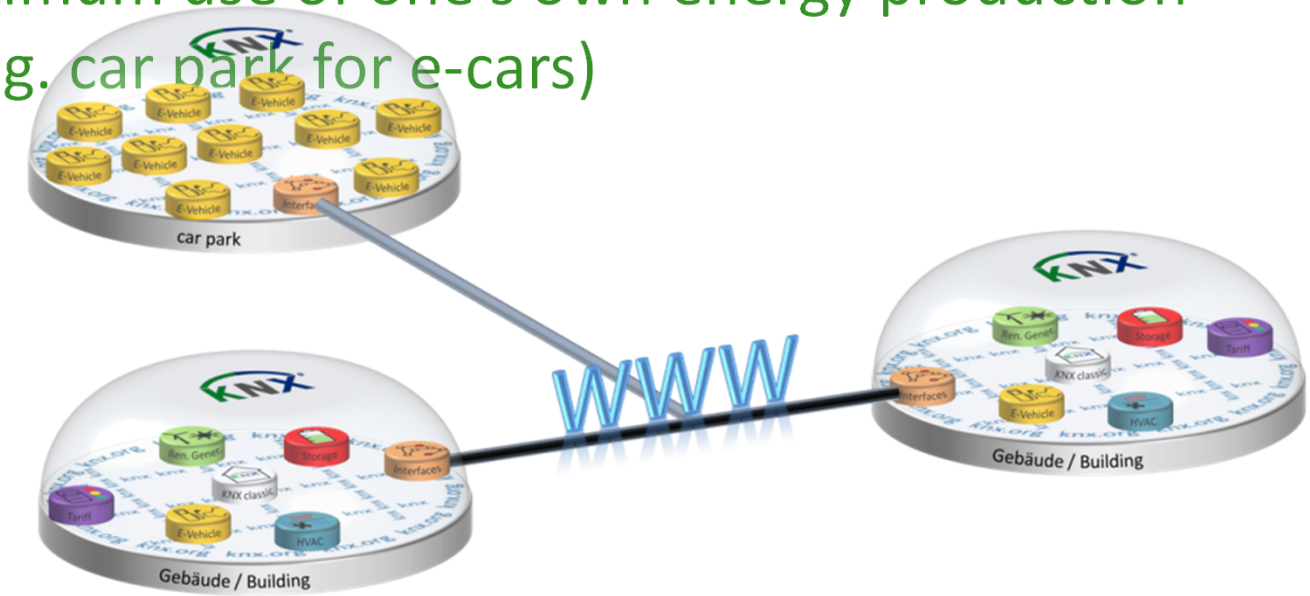
Providing intelligent charging of electric vehicles

- Using excess energy from own renewables to charge e-car
- Controlled charging ➔ shift loading to period of lower demand (e.g. night)
- Information from charging station to build controller that e-car is plugged.
- Remote start of charging process.
- Feeding stored energy of e-car back into g

Infrastructure

The Network provides new possibilities to the Smart cities

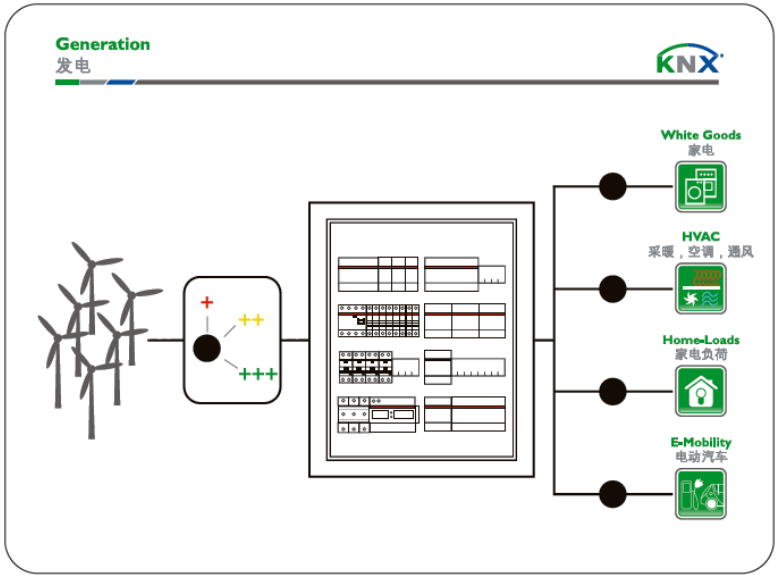
- Linking distributed properties via IP as if they were one single building
- Making optimum use of one's own energy production capacity (e.g. car park for e-cars)

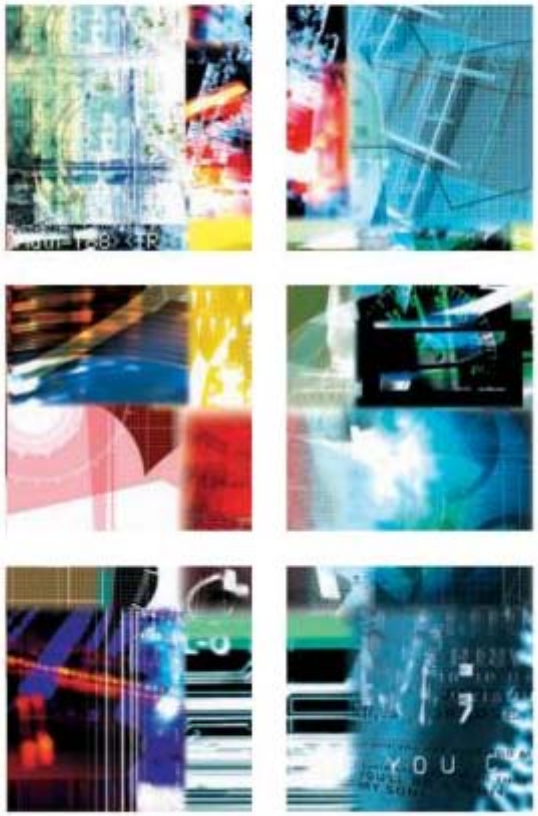


Energy Generation

Control of the energy by a load manager:

- Decentralized energy generation management
- HVAC automation
- White goods monitoring
- Etc
- Tariff controlled by utility
- Automatic or manual control
- Buffer renewable energies





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Thank you for your attention