Smart home and building solutions.
Global. Secure. Connected.

Advantages of KNX

January 2021

KNX is the Standard

CENELEC

EN 50090

The only European Standard for Home and Building Electronic Systems (HBES) based on KNX.

CEN

EN 13321-1

The European Standard for Building Automation based on KNX.

ISO/IEC

14543-3

The World`s only Standard for Home Electronic Systems (HES) based on KNX.

GB/T

GB/T 20965

Chinese Standard for Home and Building Control based on KNX

US STANDARD

(ANSI/ASHRAE 135)

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Advantages of KNX

KNX – Advantage No. 1

KNX is a standard here to stay!

CENELEC	CENELEC	2003	KNX	EN50090
CEN	CEN	2005	KNX	EN13321-1/2
ISO	ISO/IEC	2006	KNX	ISO/IEC14543-3
ANSI ASHRAE	ANSI/ASHRAE	2006	KNX	
SAC	SAC (P.R. CHINA)	2013	KNX	GB/T 20965

KNX – Advantage No. 2

Guaranteed Interoperability through neutral certification

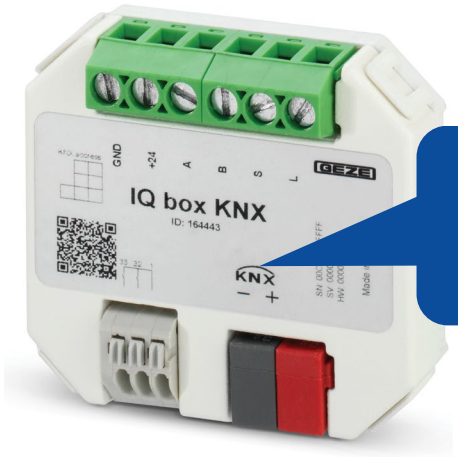
- KNX is the only home and building control standard running global certification schemes for

A Products

B Training Centers

C Persons

- Product compliance is checked at neutral third party test laboratories



KNX Logo guarantees interoperability between products of different manufacturers and applications

KNX – Advantage No. 3

KNX = High Product Quality

KNX Association requires high level production and quality control during all stages of the product's life

All manufacturers have to show compliance to ISO 9001 = prerequisite for product certification

KNX – Advantage No. 4

One Tool – the Engineering Tool Software ETS™!

- One PC software tool for

Design

Configuration

Diagnostics

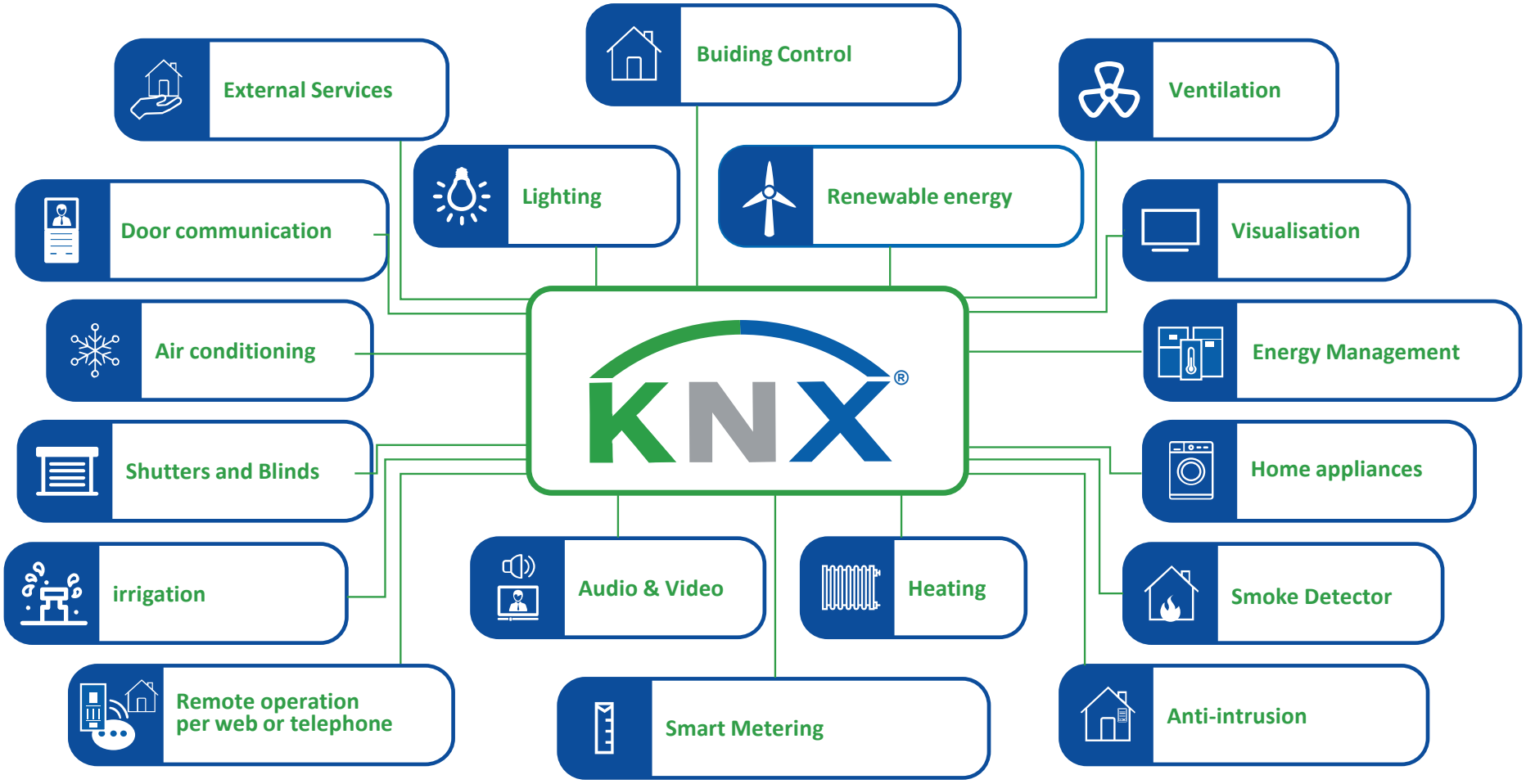
of KNX all certified products

- Tool is manufacturer, devices and application independent – integrator can combine products of different manufacturers and applications in one installation

- Tool is extendable with customized Apps

KNX – Advantage No. 5

Fit for use in ALL applications in home and building control!



KNX – Advantage No. 6

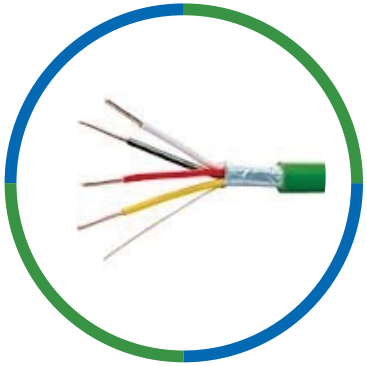
Fit for use in all kinds of buildings!

- New or Existing Buildings
- One family houses or large size buildings
- Easy extendible/adaptable to new needs

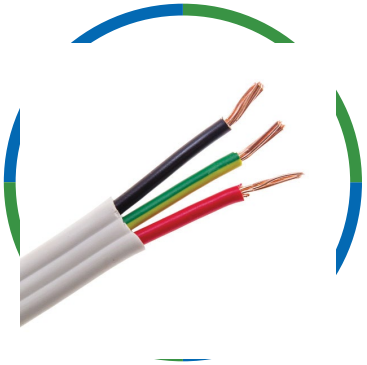
KNX – Advantage No. 7

Support for different transmission media

Twisted Pair



Power Line



Radio Frequency

Ethernet/WIFI

KNX – Advantage No. 8

Support for different configuration Modes

- System Mode

Configuration with PC (ETS)

Prior basic course training recommended

Any size of installation

- Easy Mode

Configuration without PC

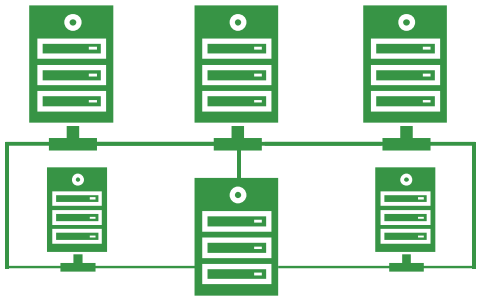
No prior training necessary

Small or medium size installations

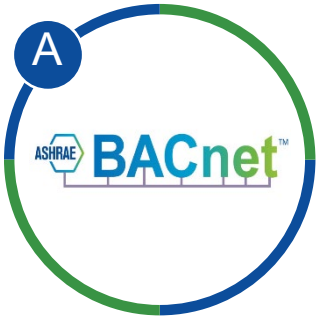
KNX – Advantage No. 9

Easy coupling to other systems

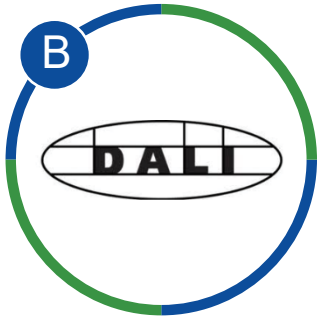
- KNX members offer large variety of gateways to couple to other systems



- Examples



Mapping to BACnet



Interfacing with DALI

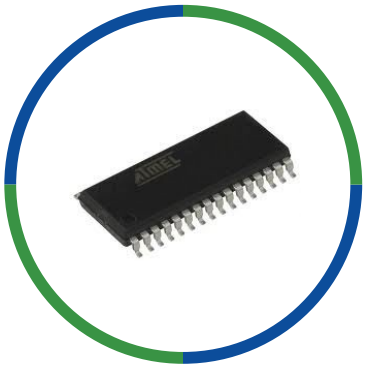
KNX – Advantage No. 10

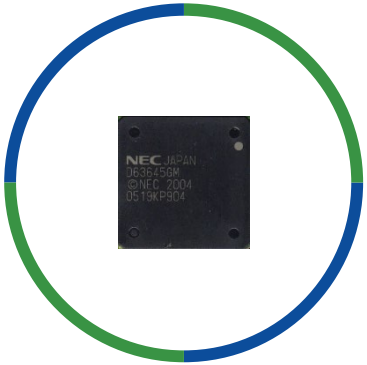
KNX is independent from any hard- or software technology

- KNX manufacturers can develop own protocol solution

1. From scratch
2. On basis of existing certified system components from other KNX members

- KNX is completely FREE of additional royalty fees: No IPR royalties to be paid for KNX standard features used in KNX certified products to other KNX members





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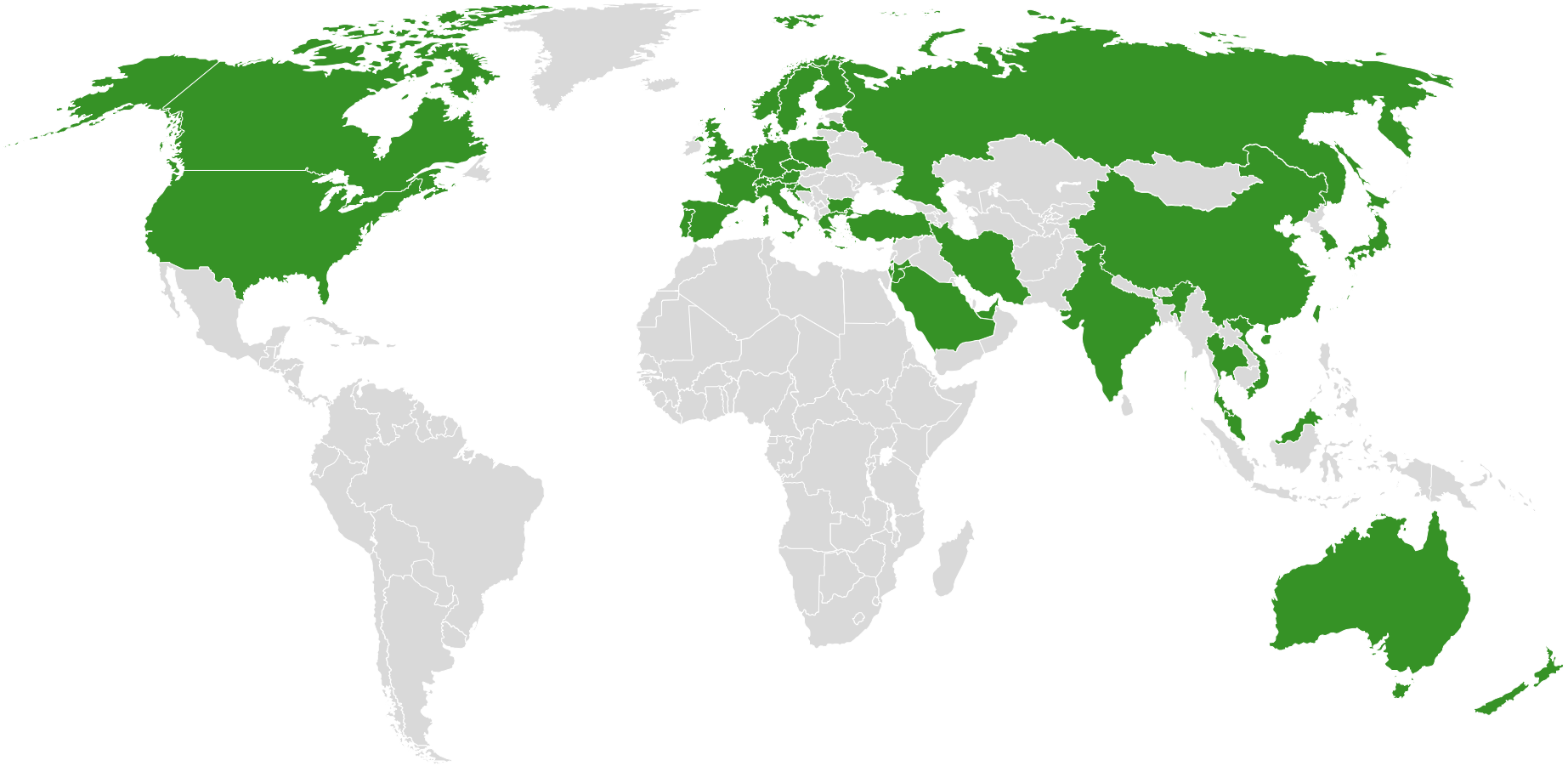
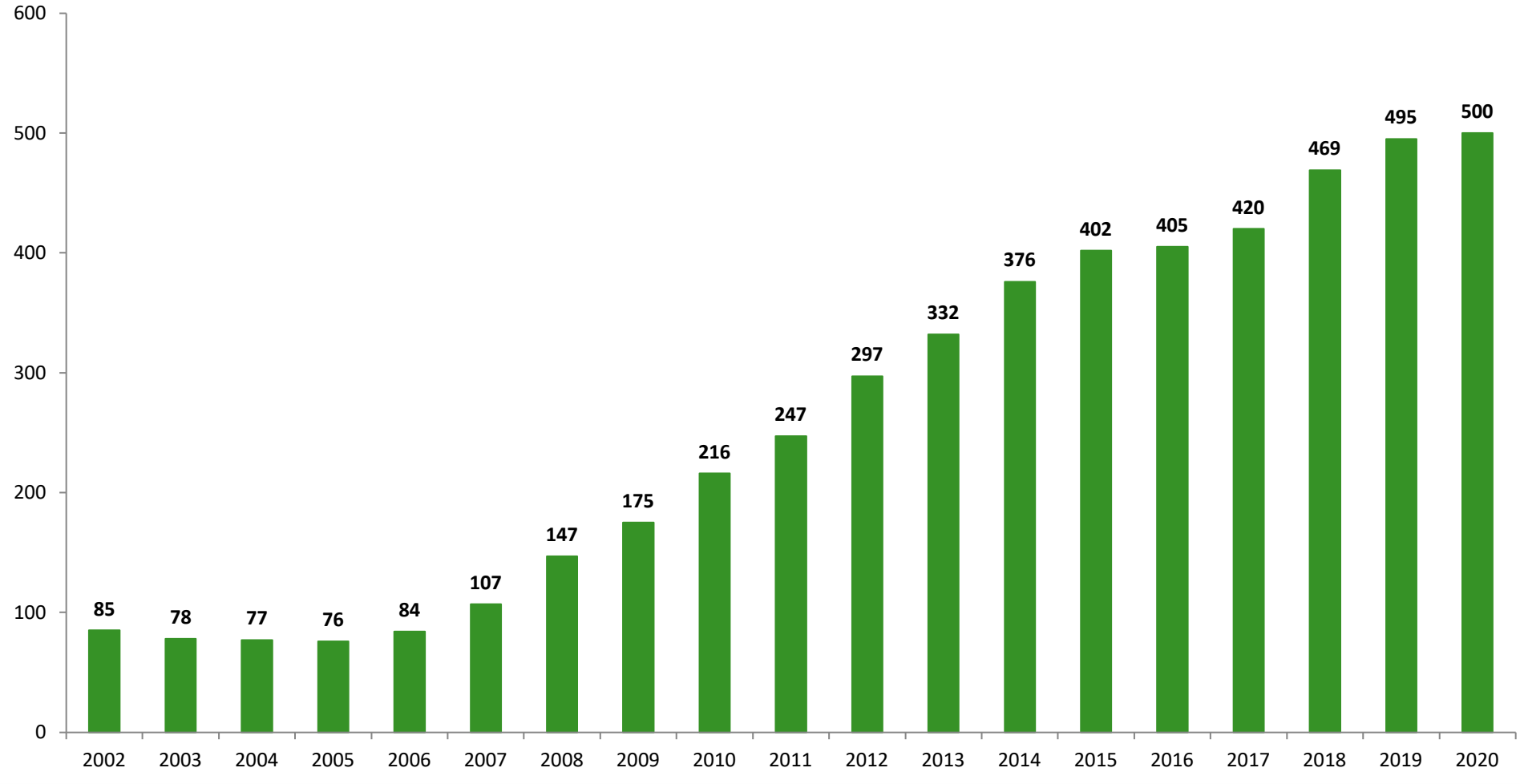
Facts & Figures

January 2021

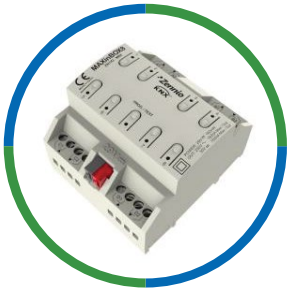
500 KNX Members in 45 countries

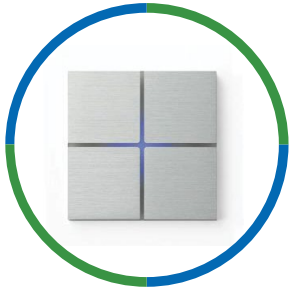


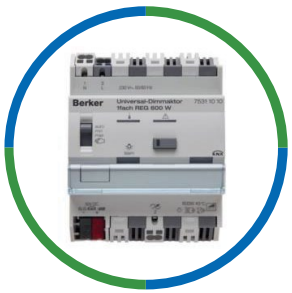
500 KNX Members in 45 countries



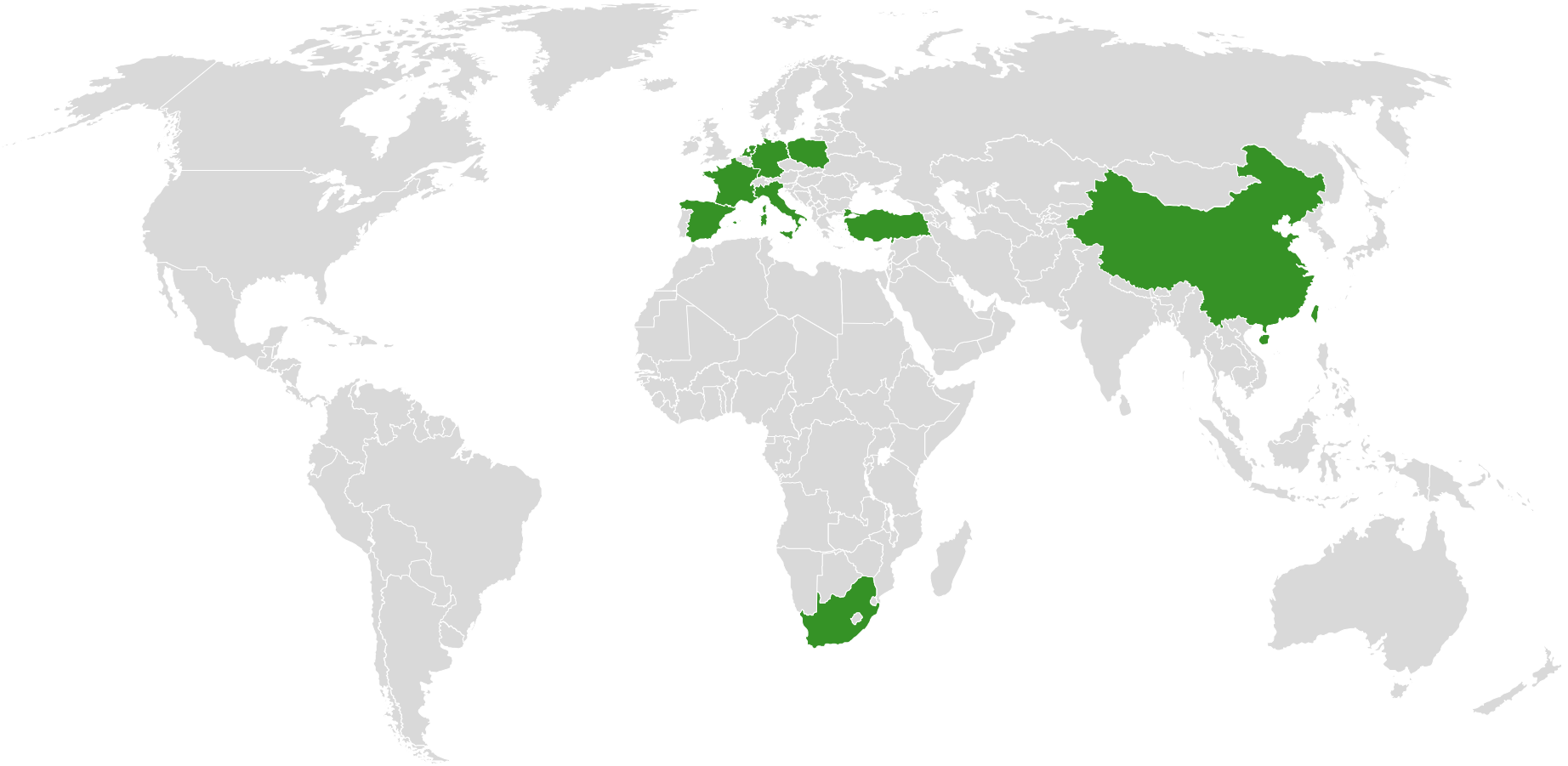
More than 8000 certified KNX Devices



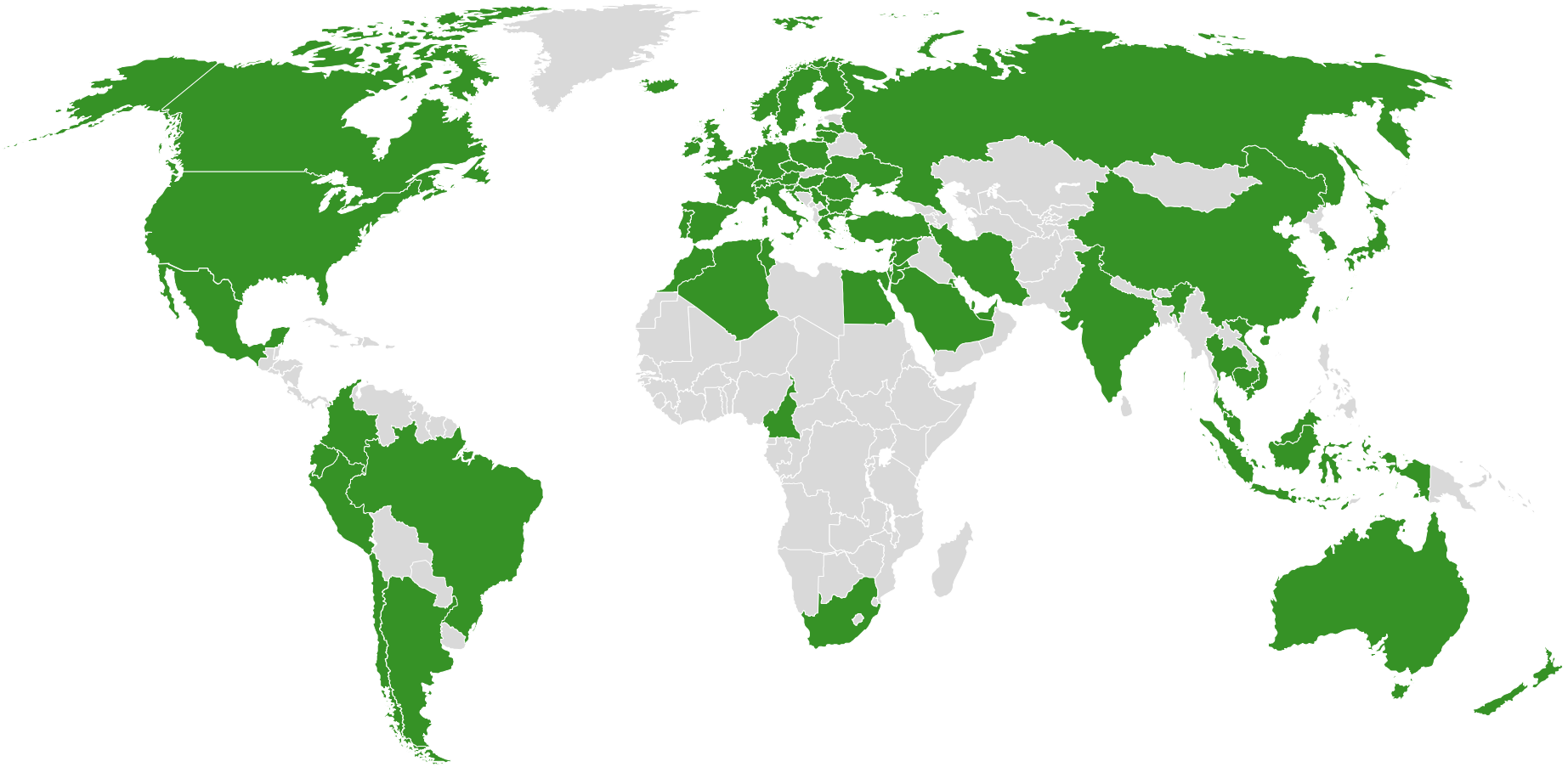




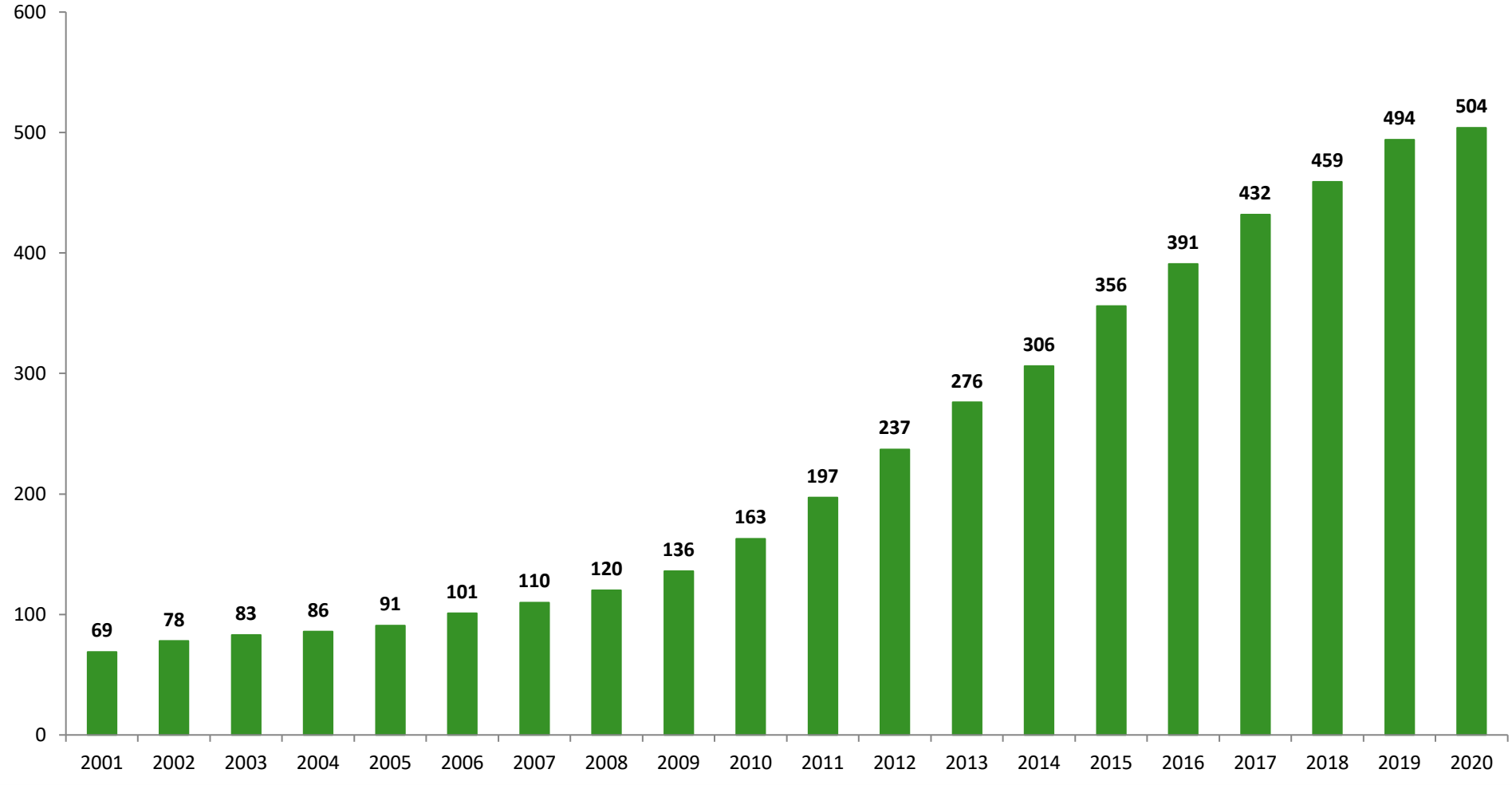
19 KNX Test Labs in 11 countries



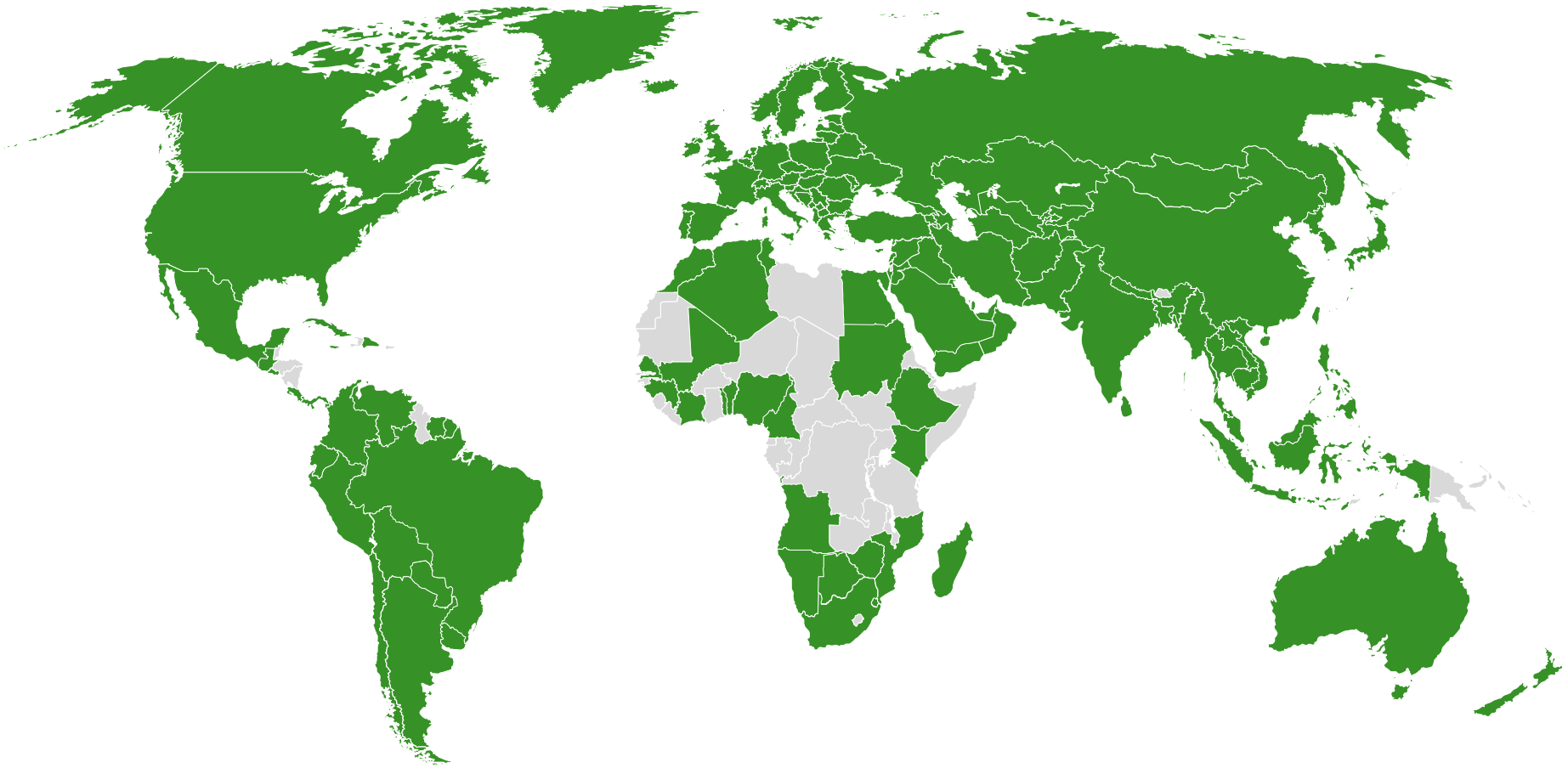
504 Training Centres in 72 countries



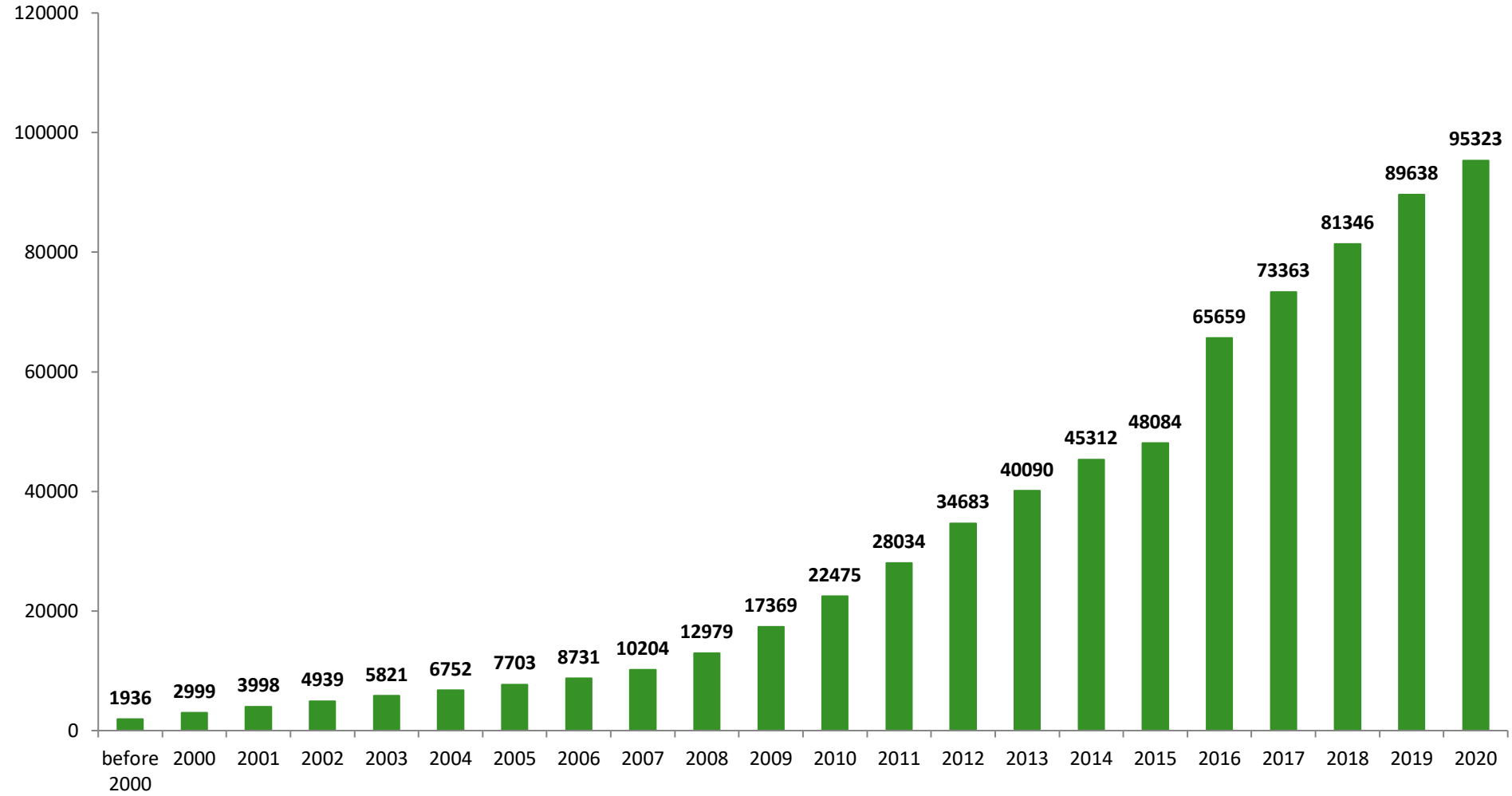
KNX Training Centres



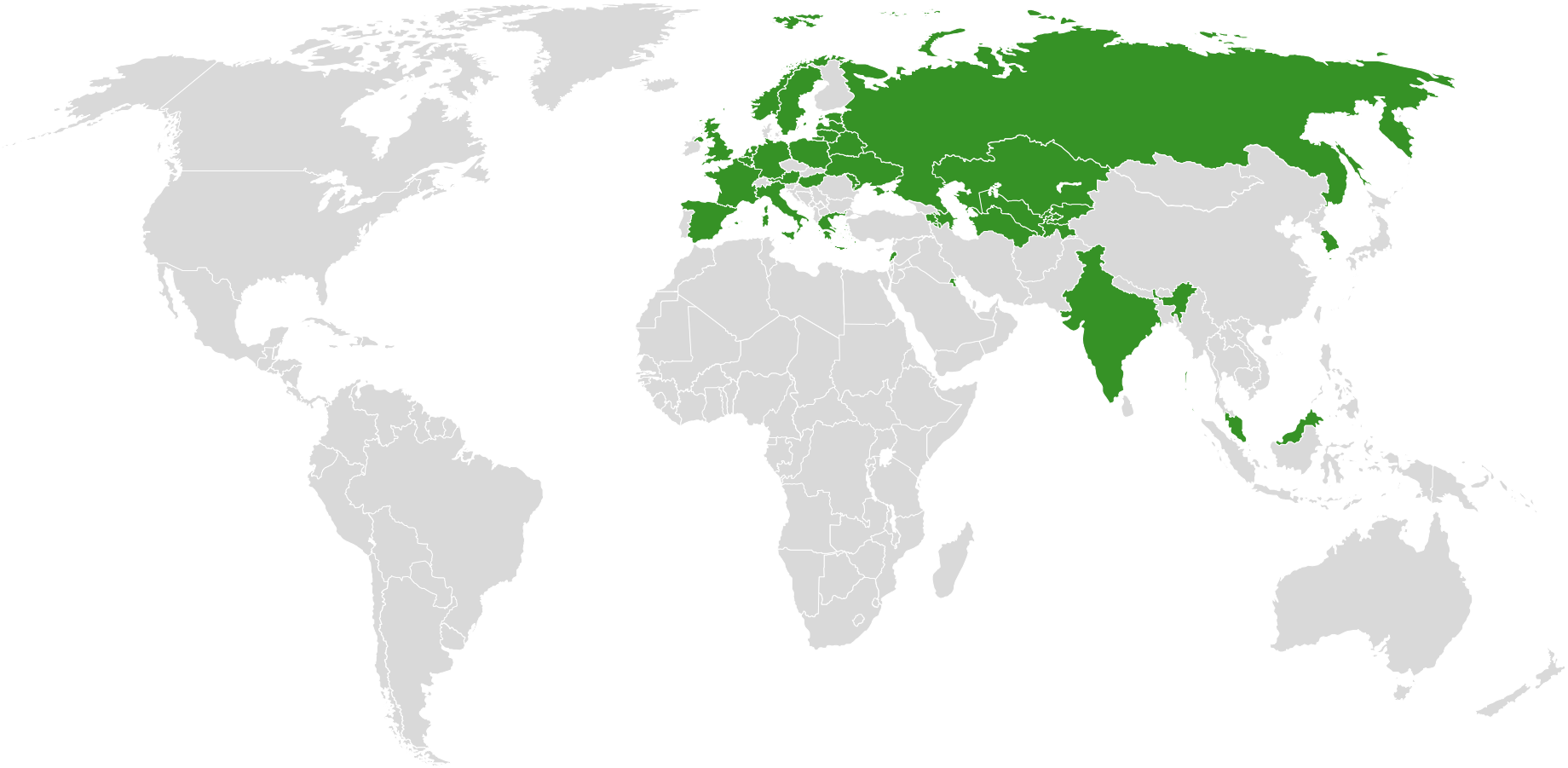
95323 KNX Partners in 171 countries



KNX Partners



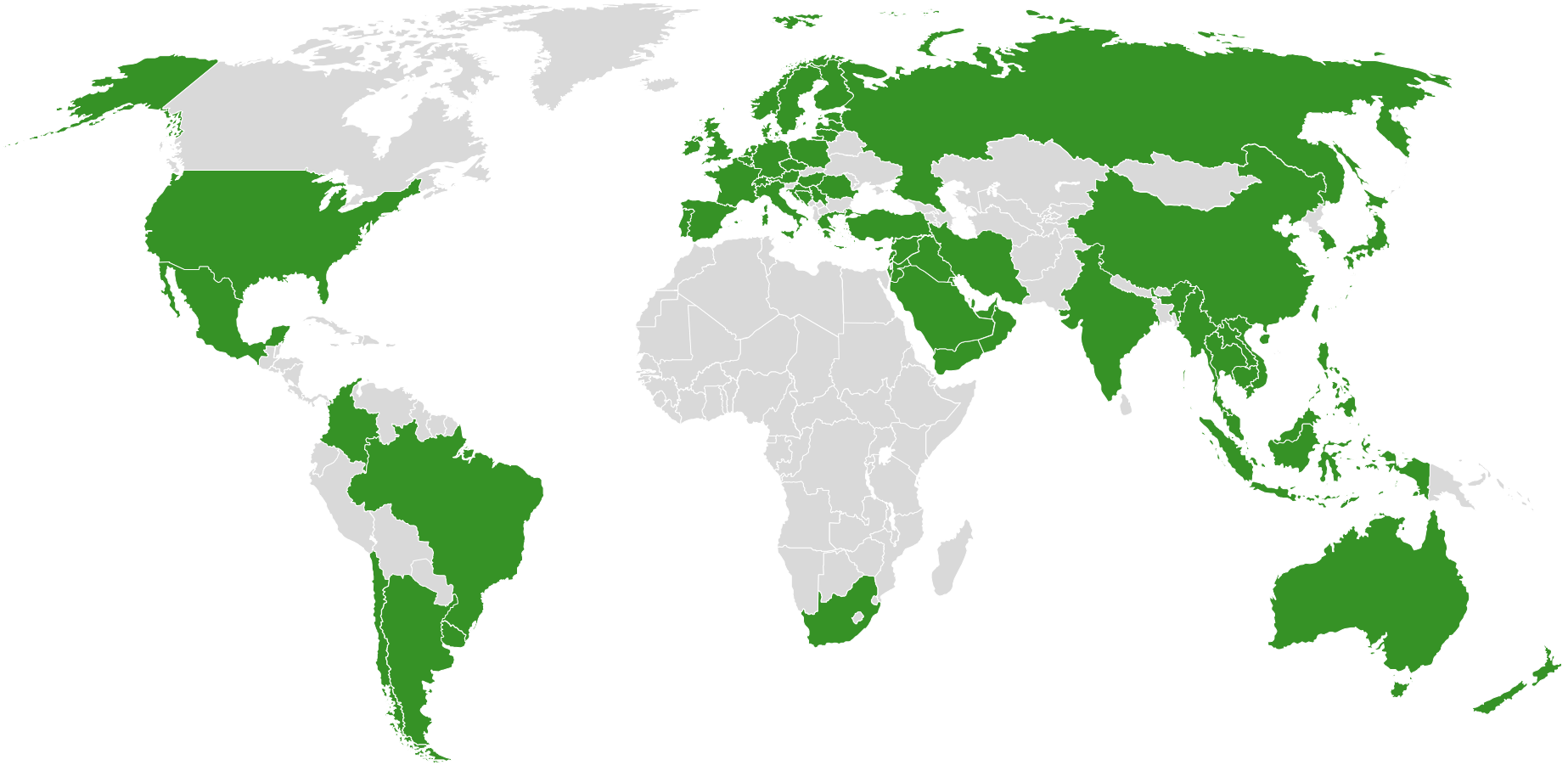
22 KNX Userclubs in 20 countries



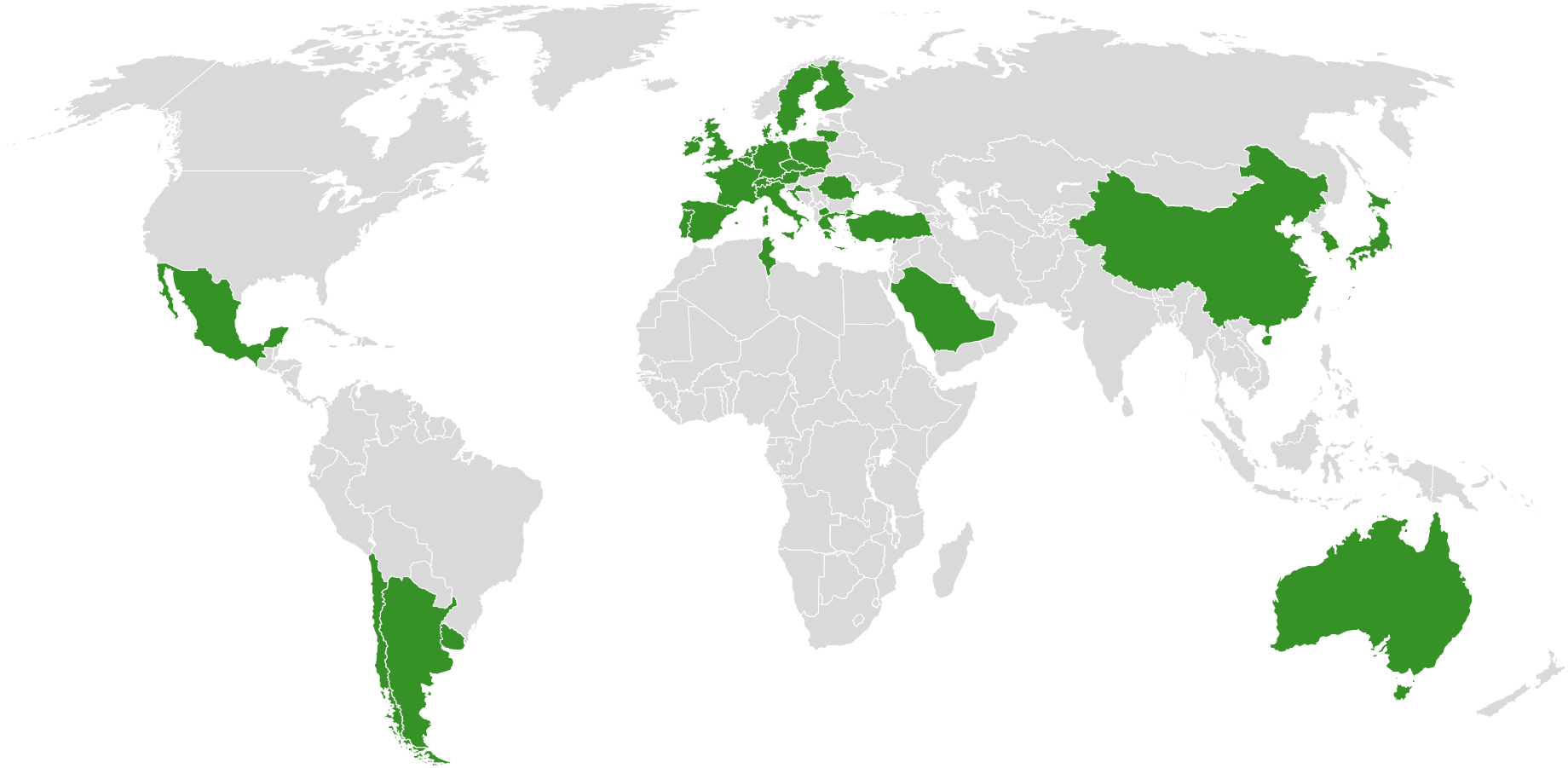
45 KNX National Groups

Local associations promoting KNX in different regional markets

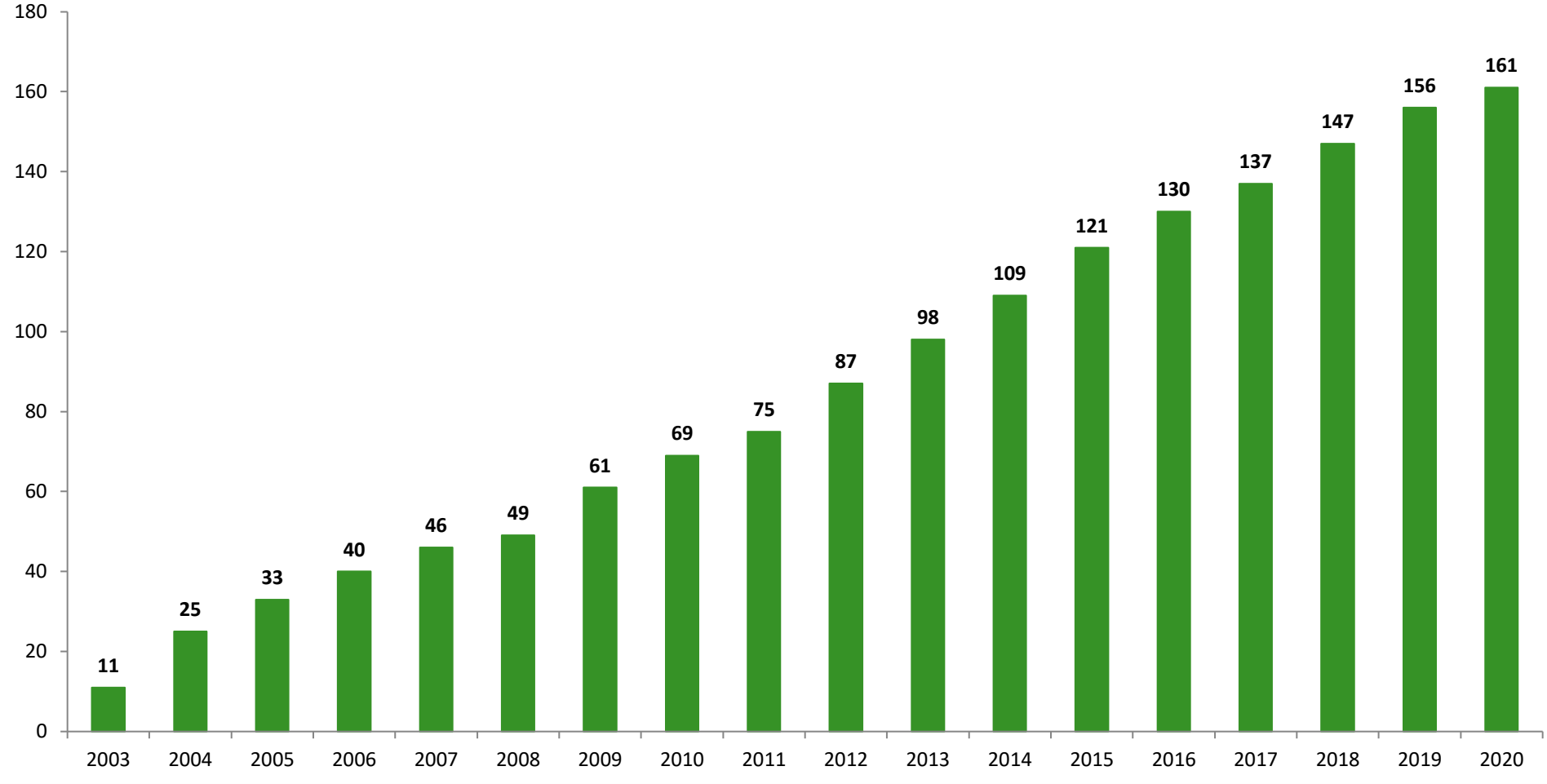
45 KNX National Groups



161 Scientific Partners in 36 countries

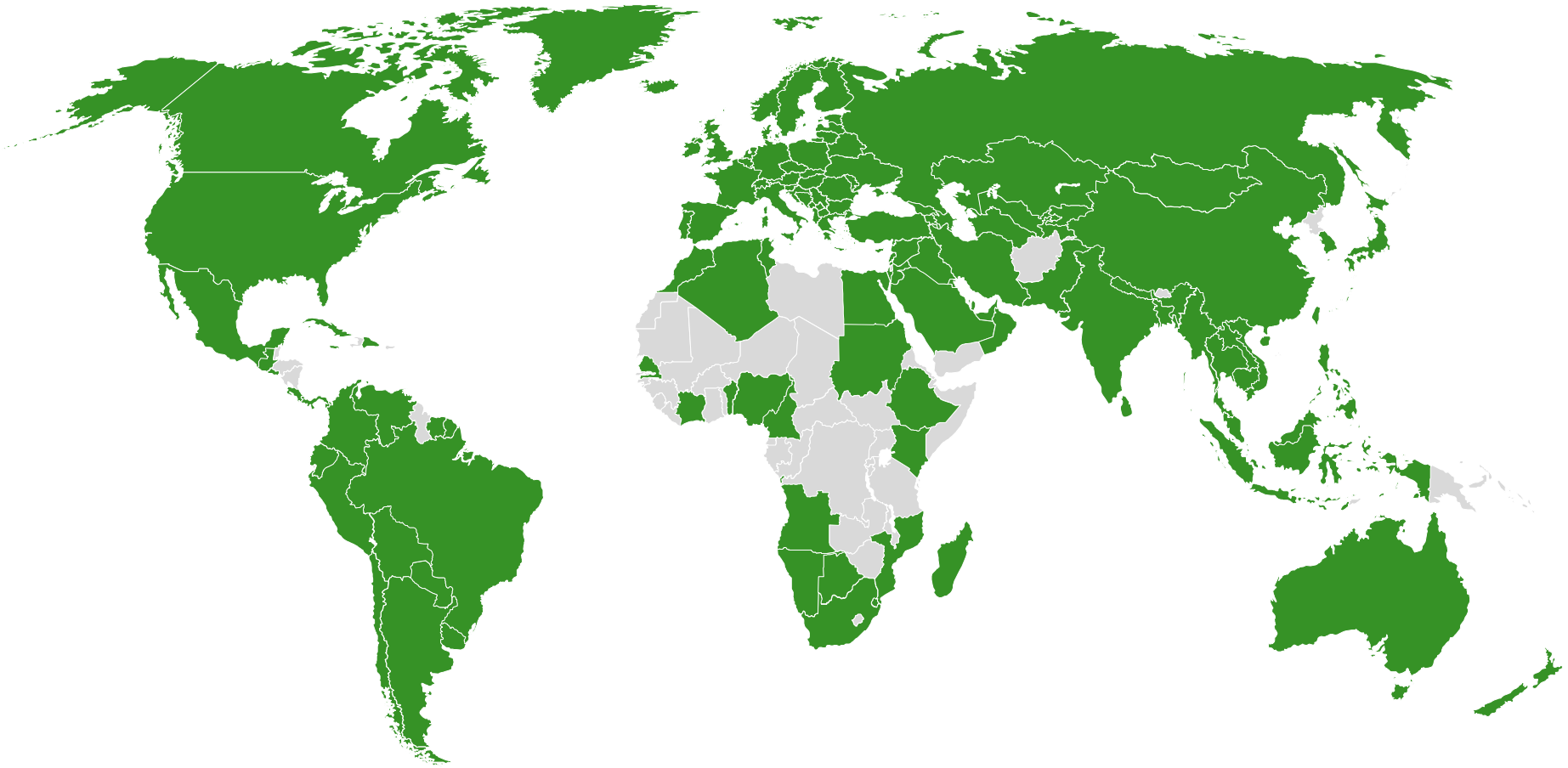


KNX Scientific Partners

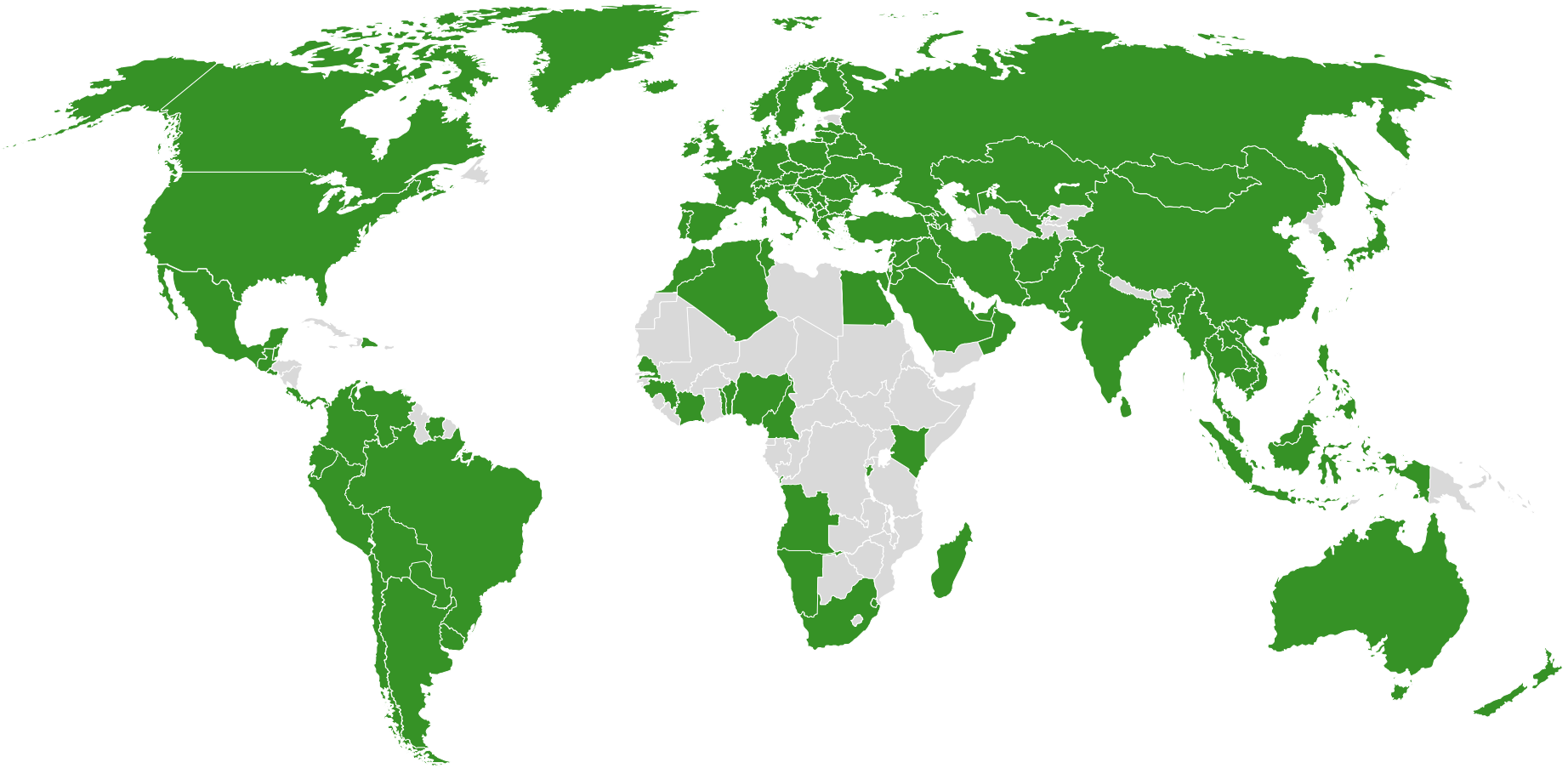


24 Associated Partners

KNX Projects in more than 190 countries



ETS Sold in 145 countries



500
KNX Manufacturers

in 45 Countries

8000 KNX Certified Products

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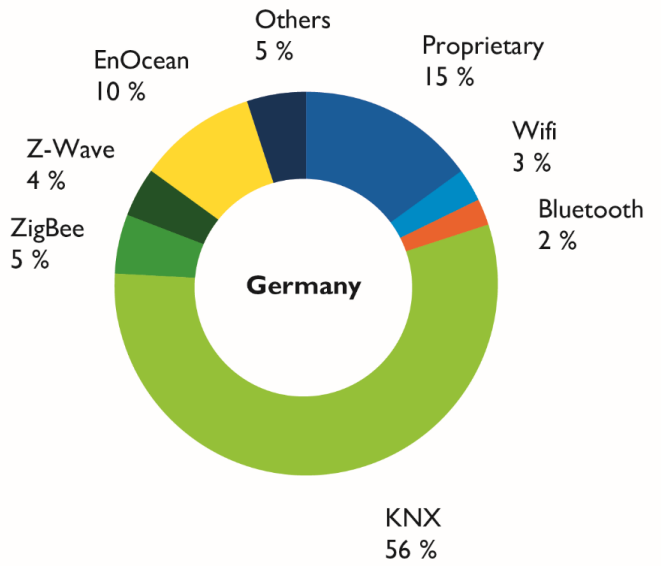
Smart Home / Light Commercial
Market Study 2017

Smart Home/Light Commercial market study 2017

Smart Home / Gewerblicher Zweckbau
Weltweite Marktstudie



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Smart Home/Light Commercial market study 2017

Smart Homes / Light Commercial Market
Worldwide Report

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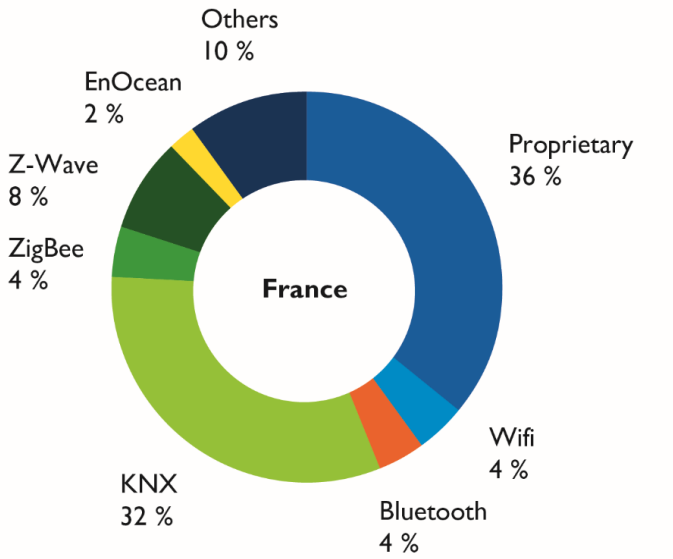

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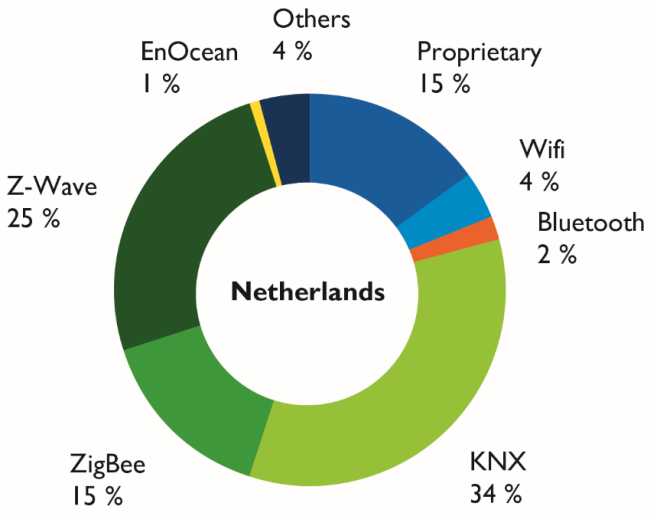
Worldwide Report



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Smart Homes / Light Commercial Market
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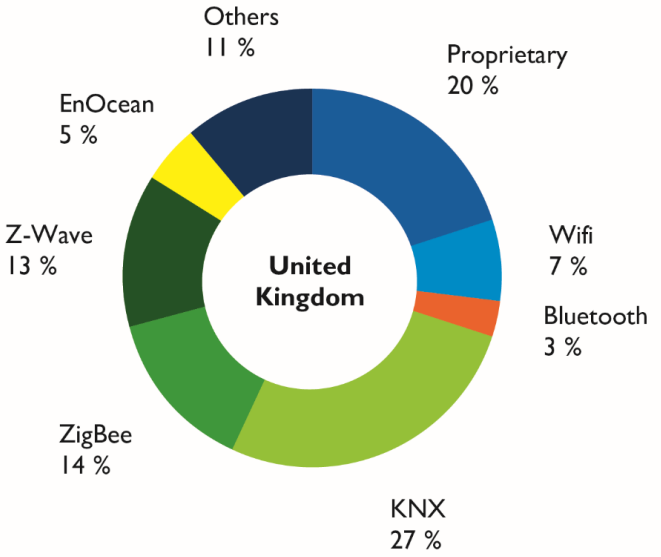

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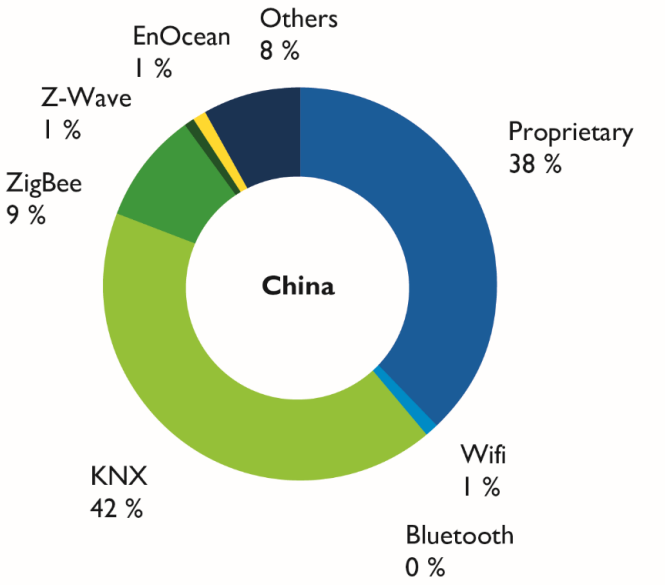

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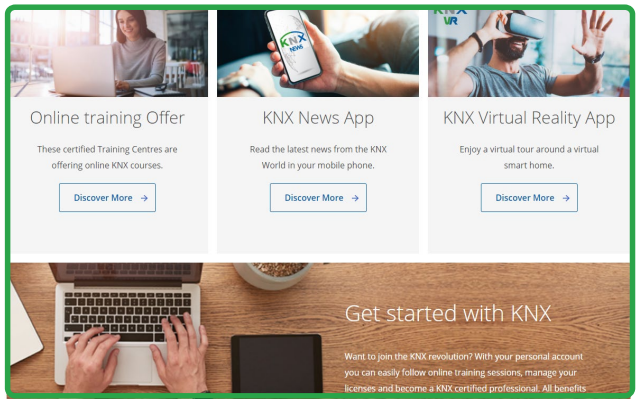
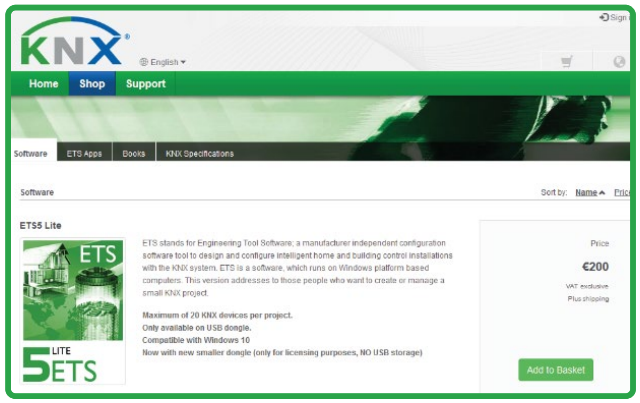
More Info Needed?



Visit the KNX Website

Brochures and presentation in our download section



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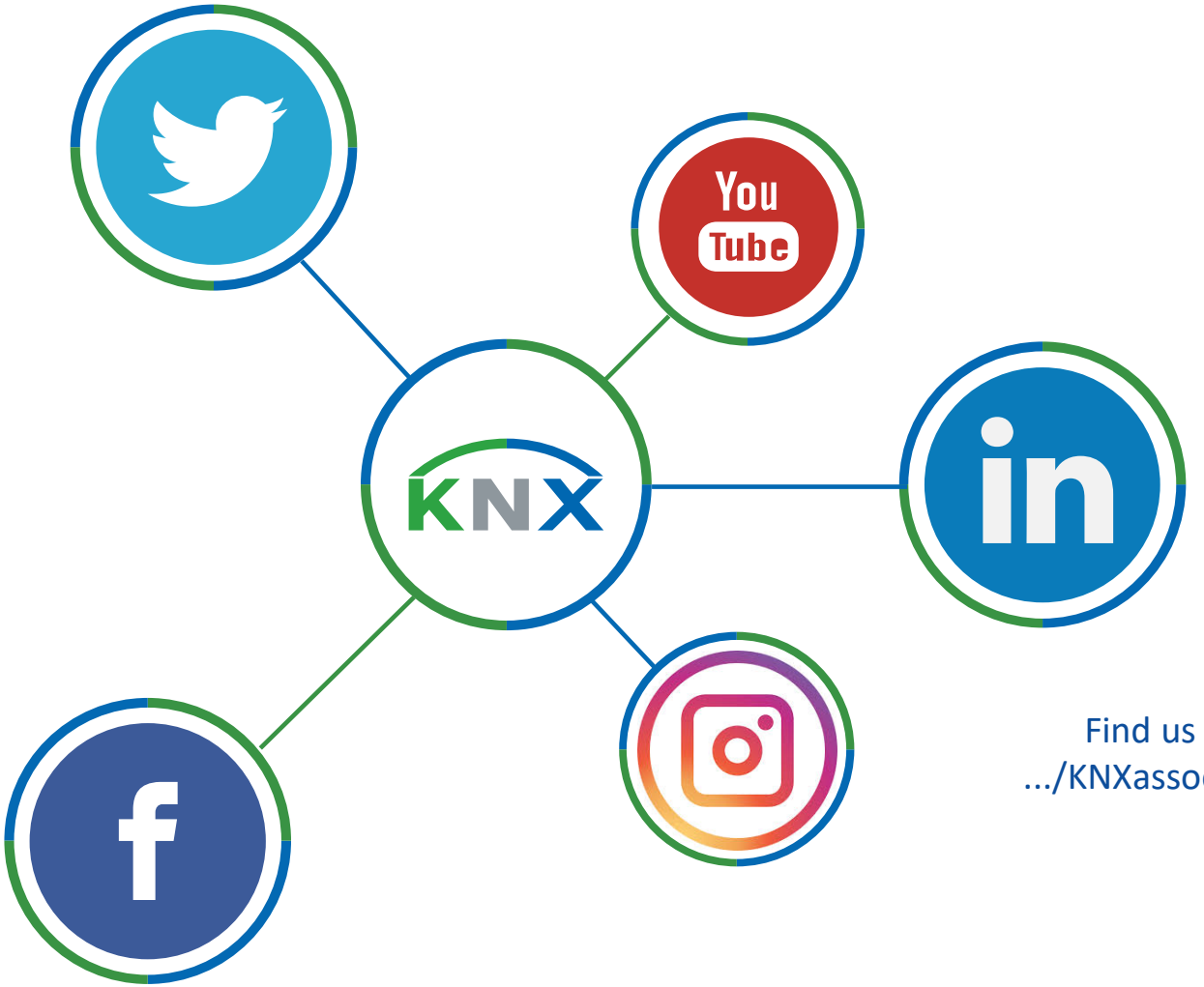

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