



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

Advantages of KNX

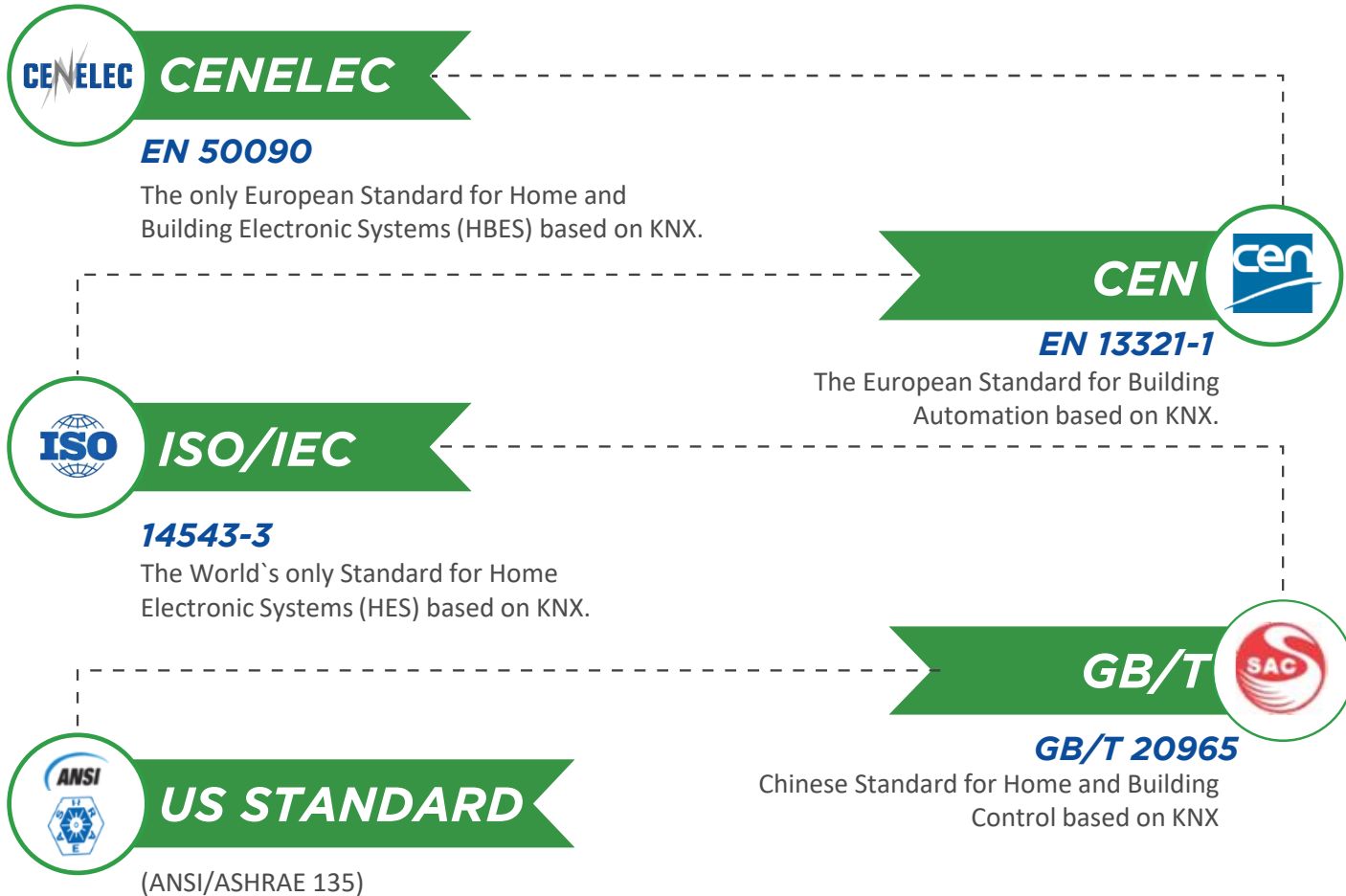
January 2023





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KNX is the Standard





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Advantages of KNX





KNX – Advantage No. 1

KNX is a standard here to stay!



CENELEC



KNX



EN50090



CEN



KNX



EN13321-1/2



ISO/IEC



KNX



ISO/IEC14543-3



ANSI/ASHRAE



KNX



**SAC
(P.R. CHINA)**



KNX



GB/T 20965



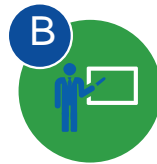
KNX – Advantage No. 2

Guaranteed Interoperability through neutral certification

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



Products



Training Centers



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



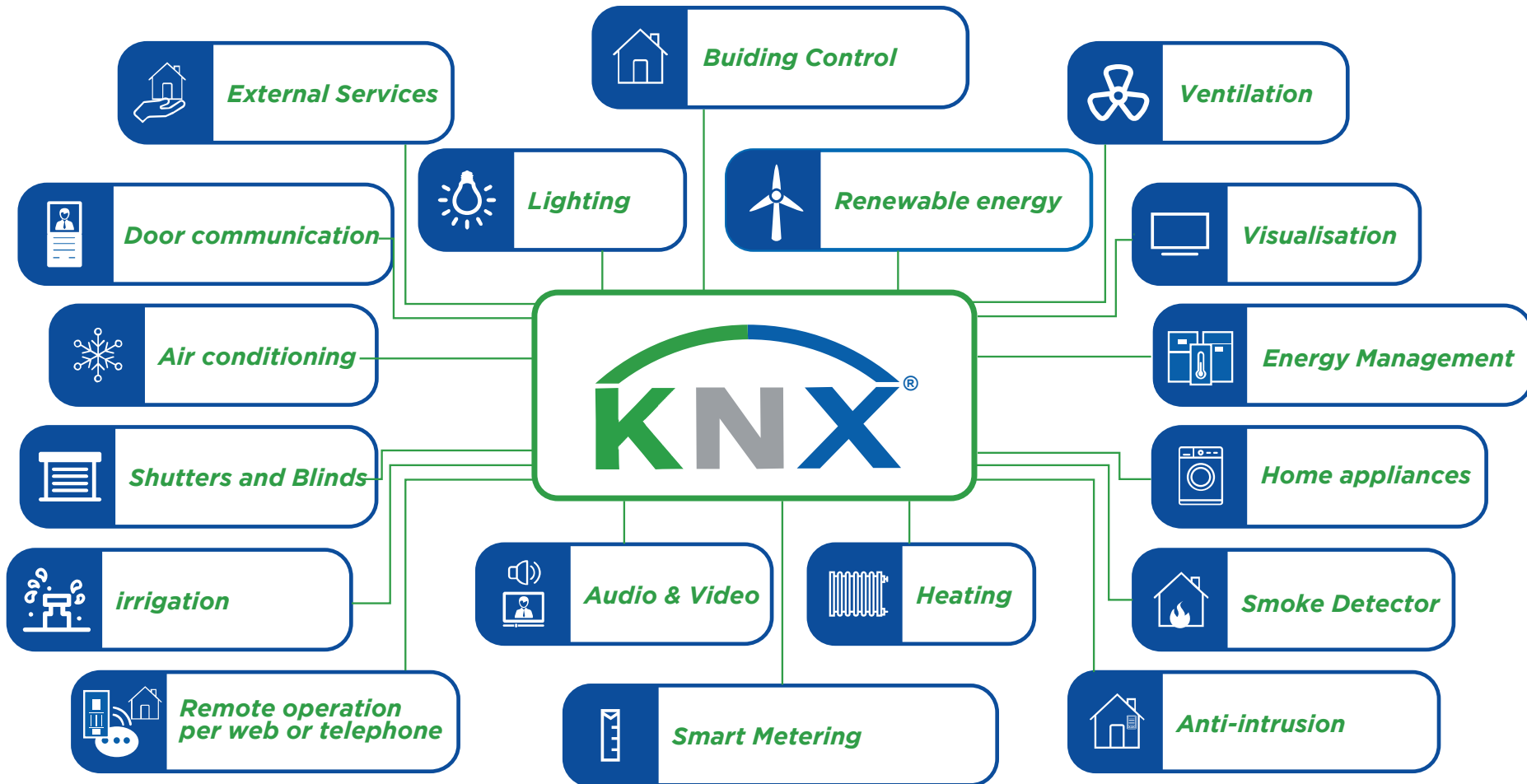
- Tool is extendable with customized Apps





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

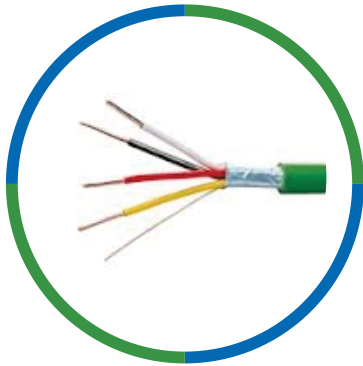




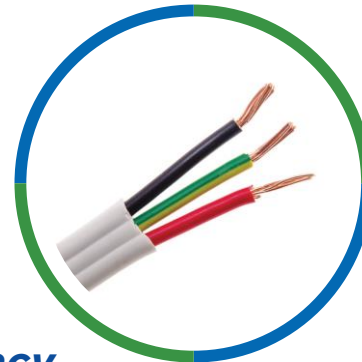
KNX – Advantage No. 7

Support for different transmission media

Twisted Pair



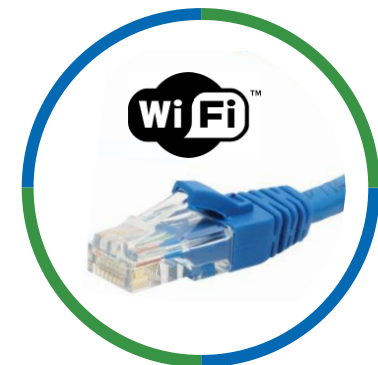
Power Line



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

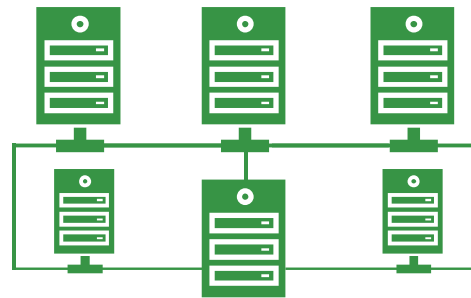




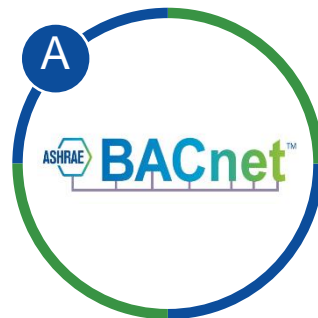
KNX – Advantage No. 9

Easy coupling to other systems

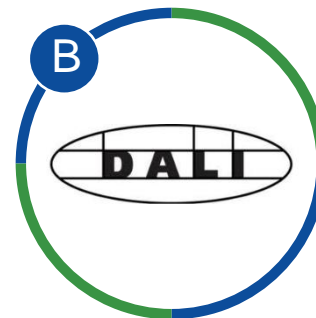
- KNX members offer large variety of gateways to couple to other systems



- Examples



Mapping to
BACnet



Interfacing
with DALI



KNX – Advantage No. 10

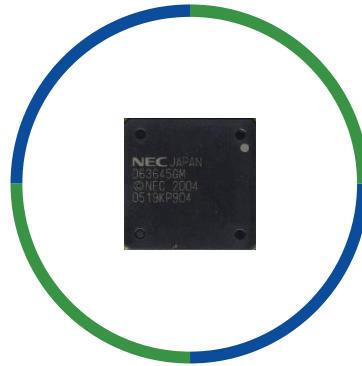
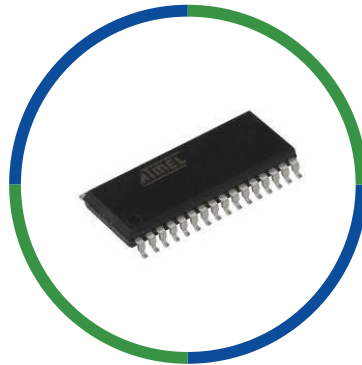
KNX is independent from any hard- or software technology

- 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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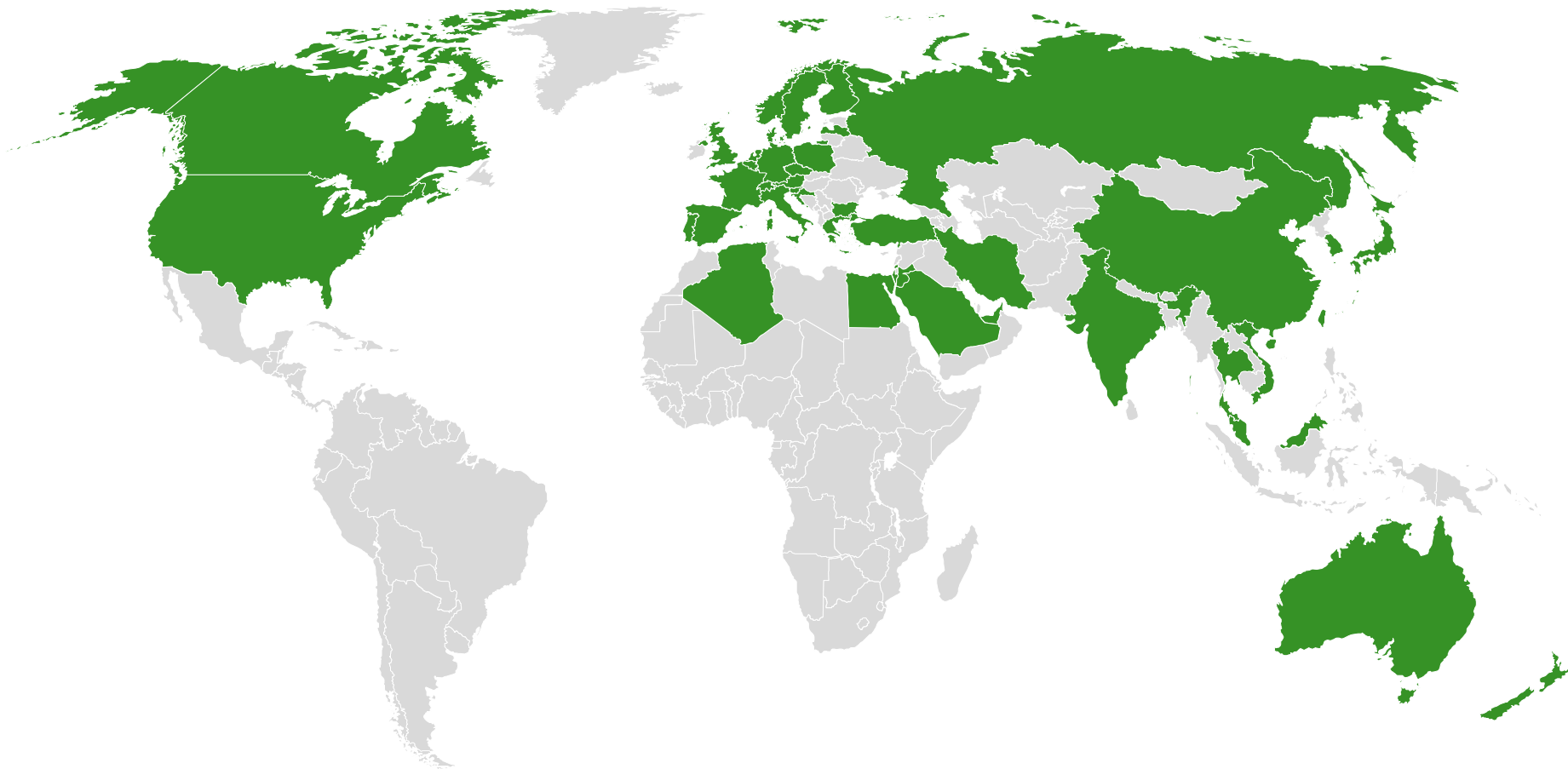
Facts & Figures

January 2023



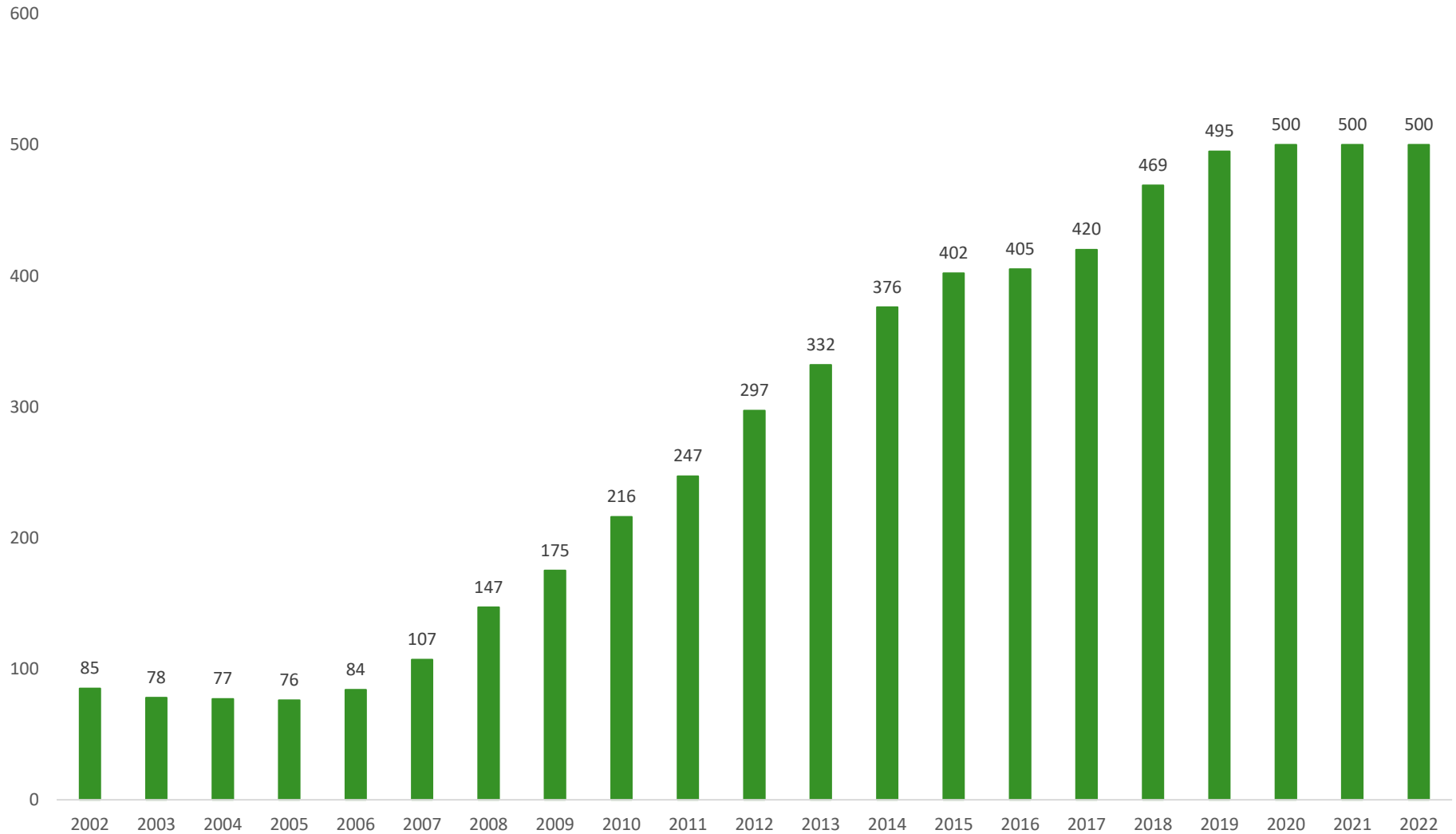


500 KNX Members in 47 countries



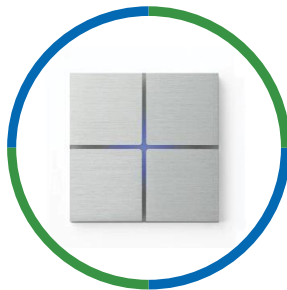
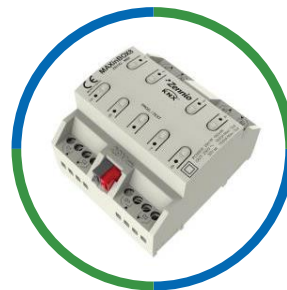


KNX Members



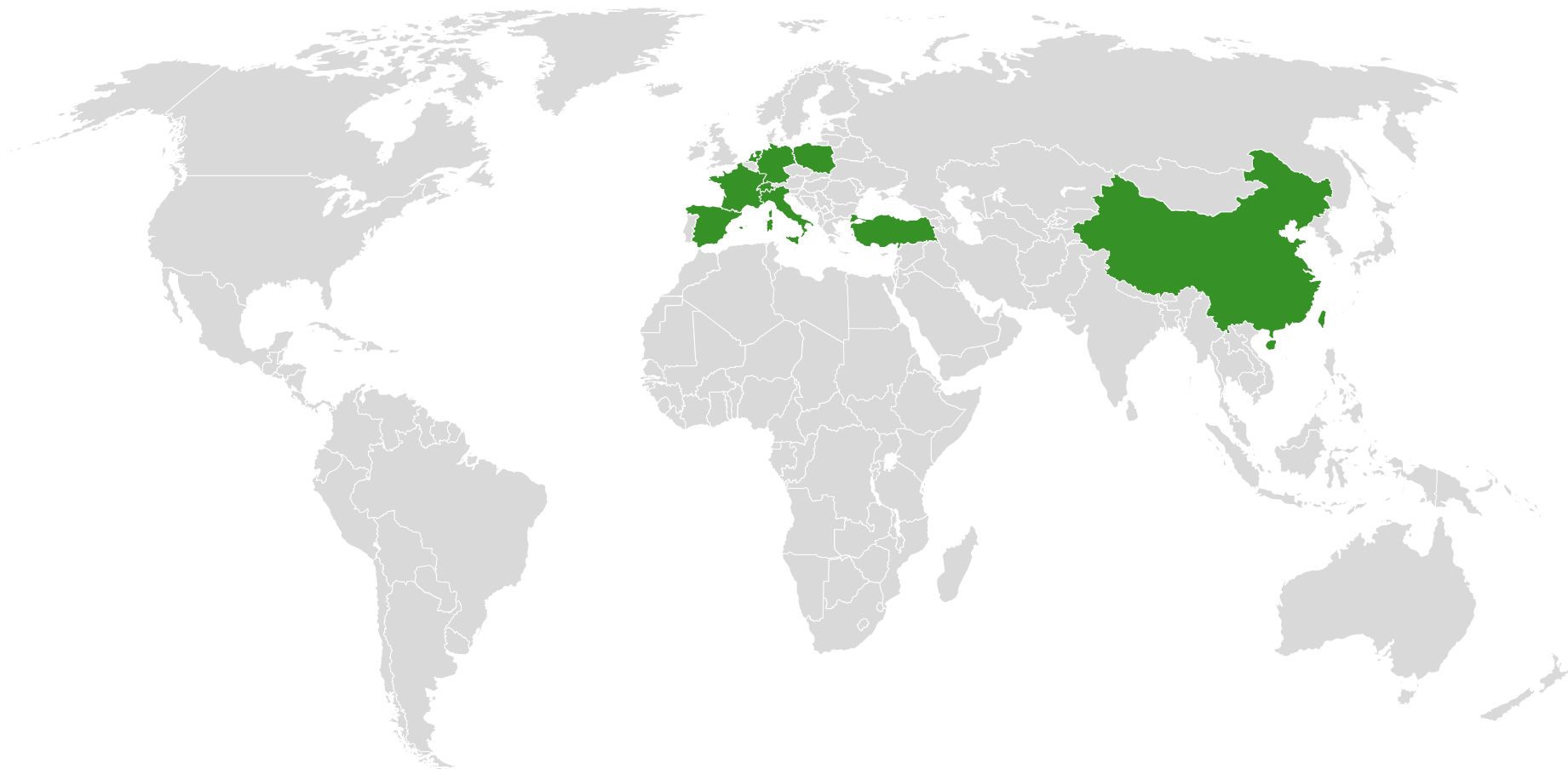


More than 8000 certified KNX Devices



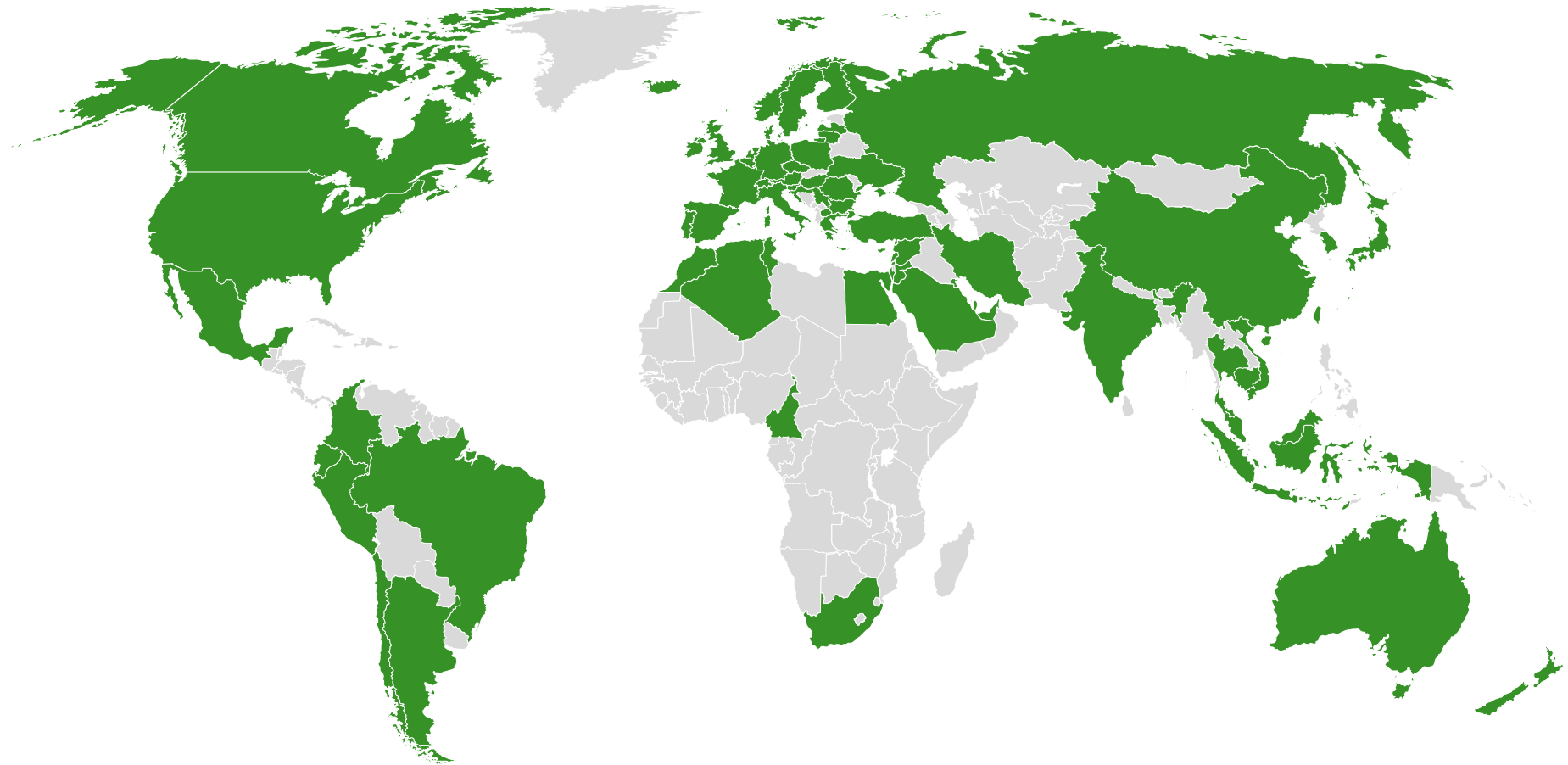


17 KNX Test Labs in 9 countries



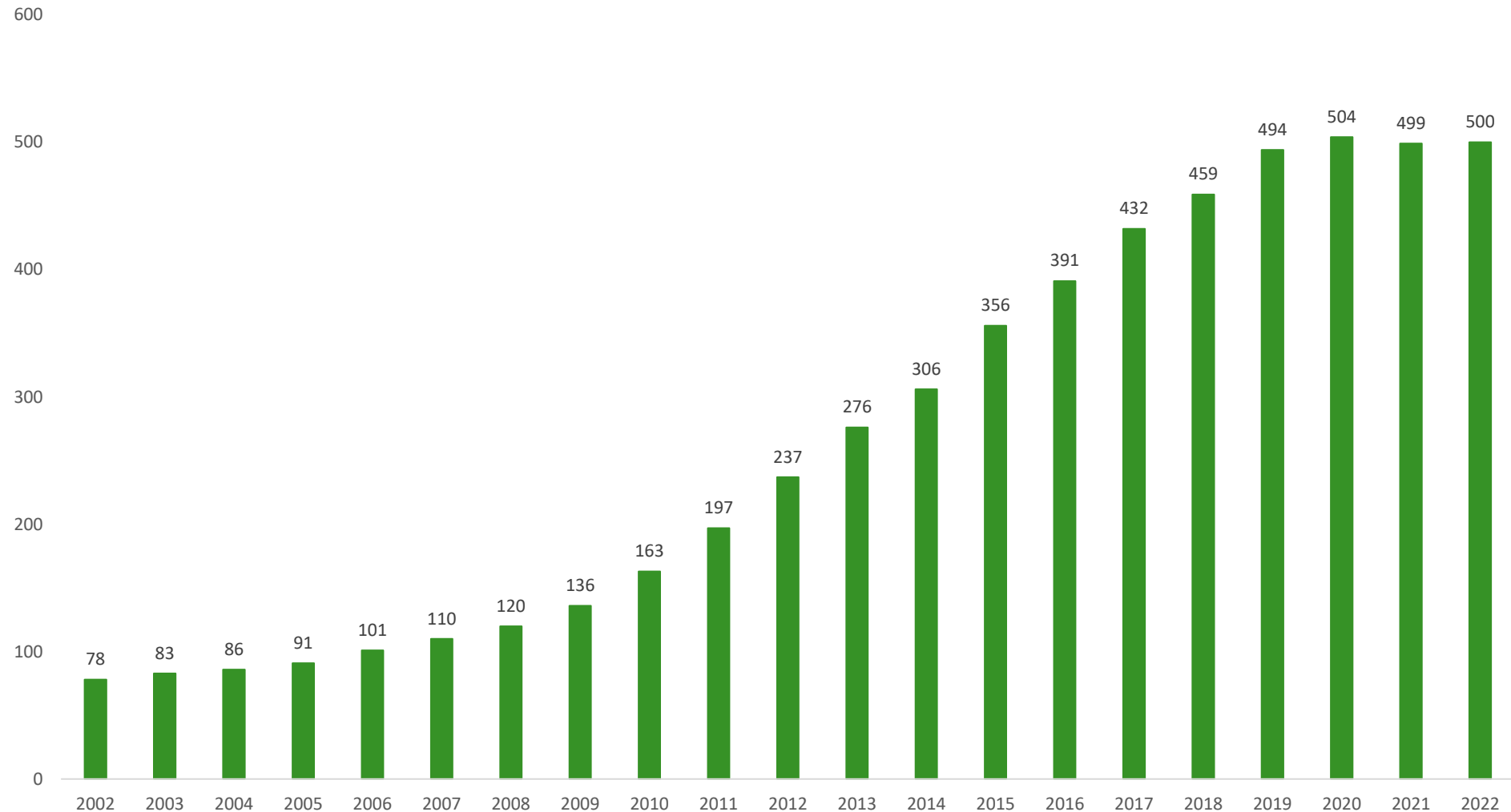


505 Training Centres in 71 countries



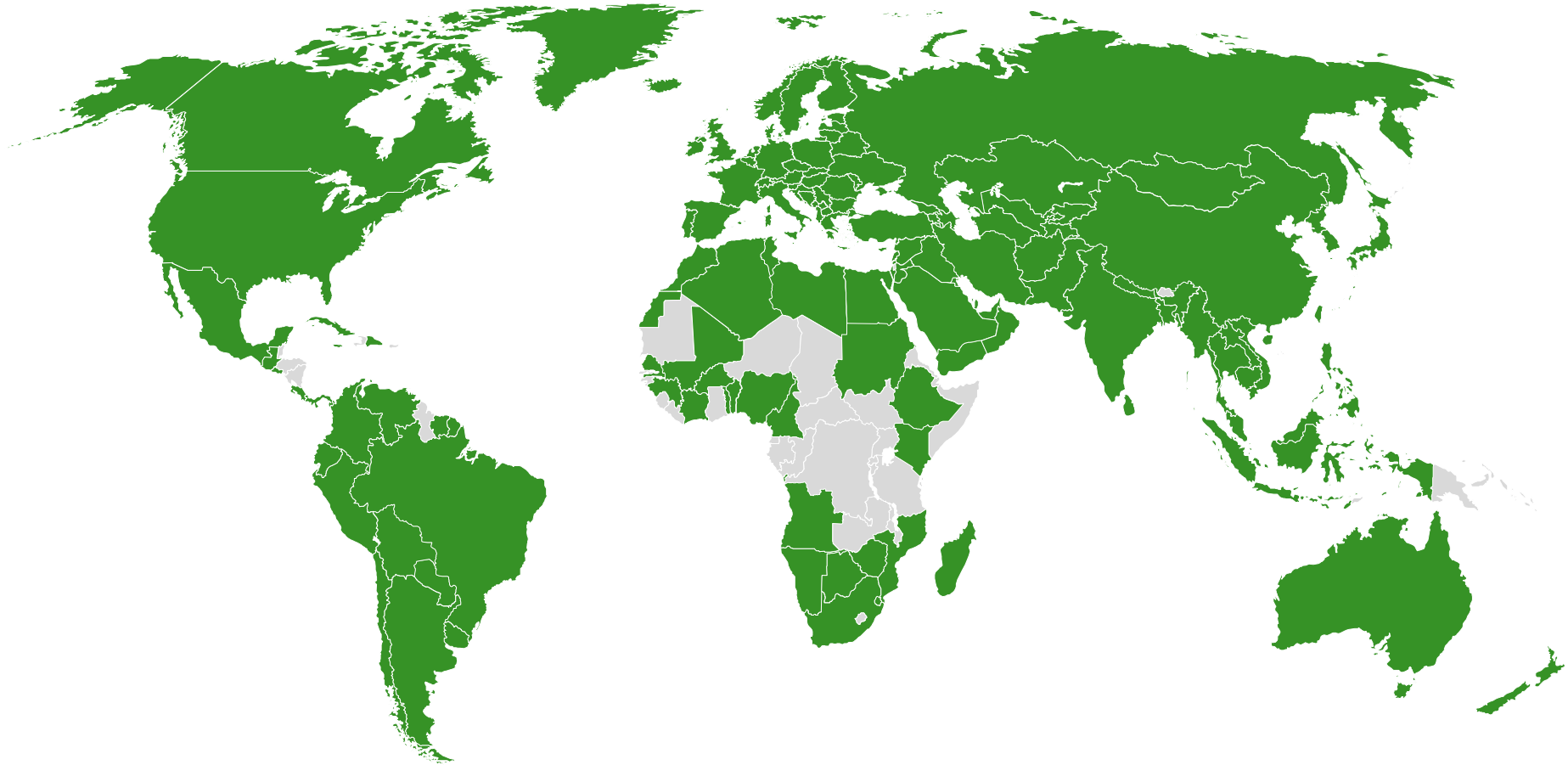


KNX Training Centres



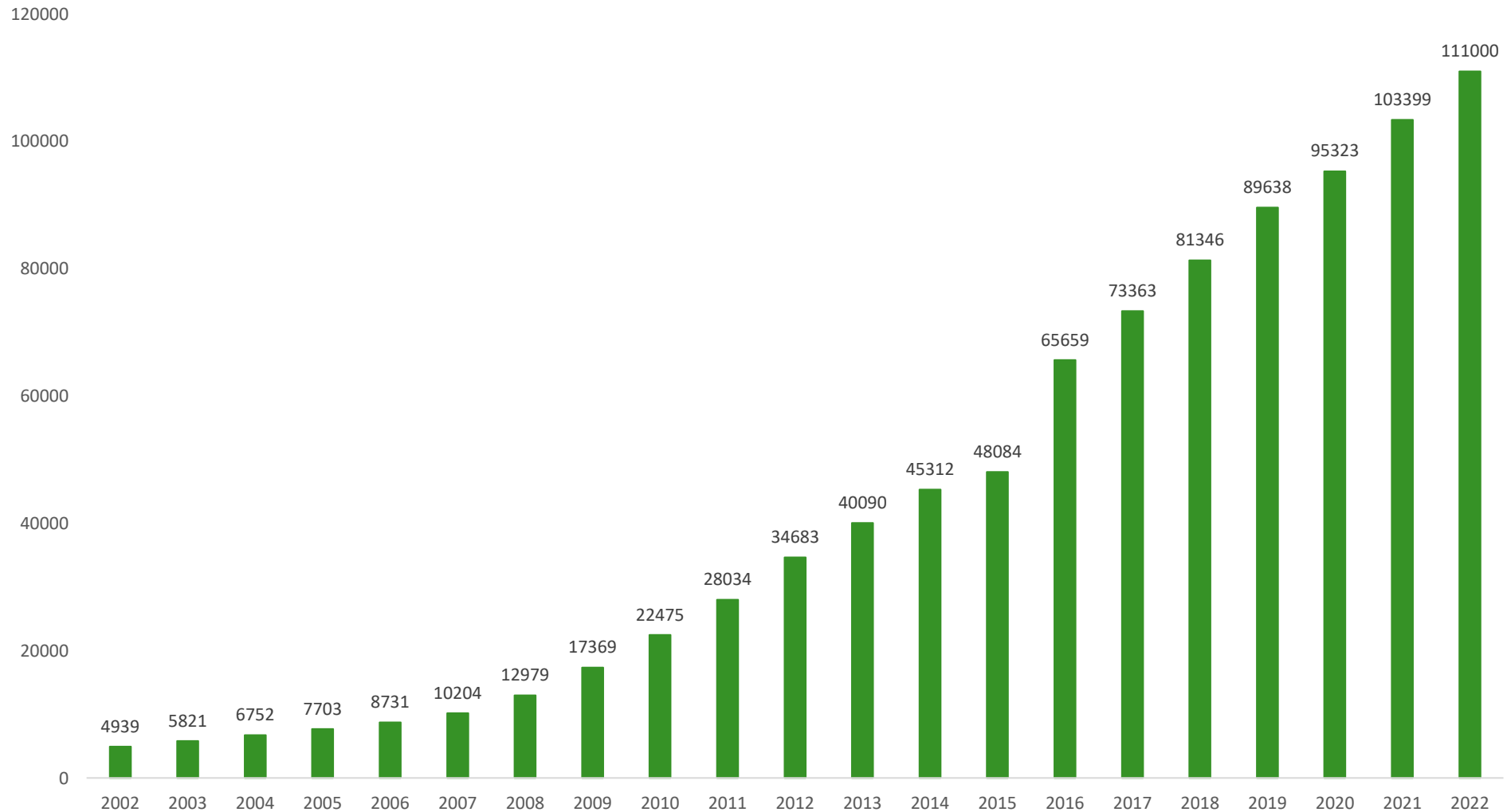


111219 KNX Partners in 181 countries





KNX Partners

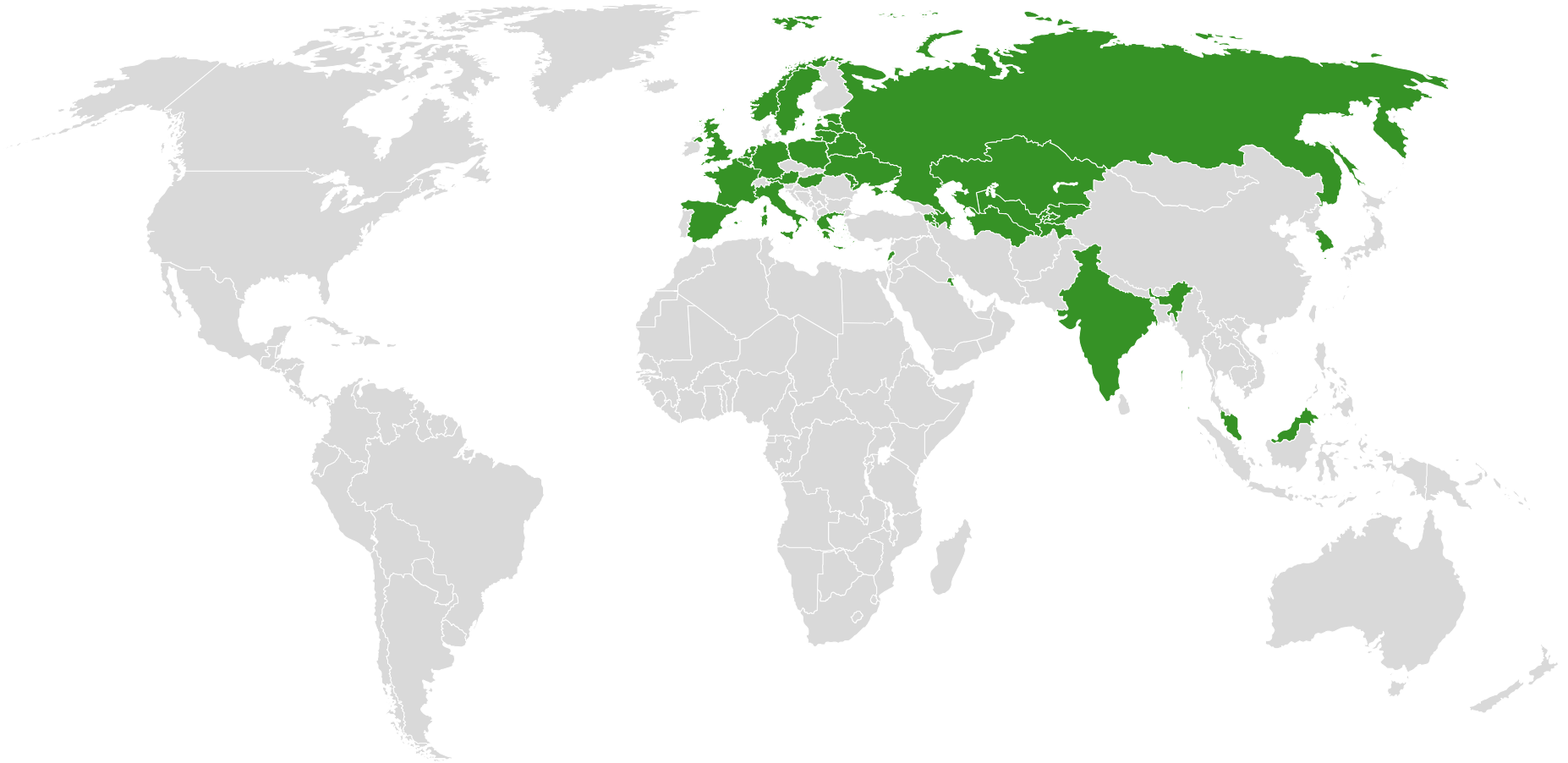


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www.knx.org

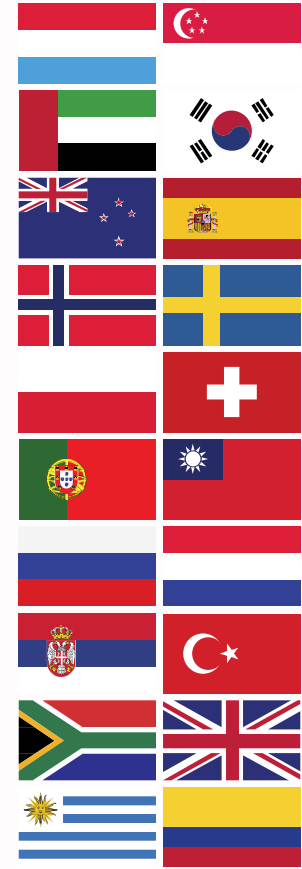


23 KNX Userclubs in 21 countries





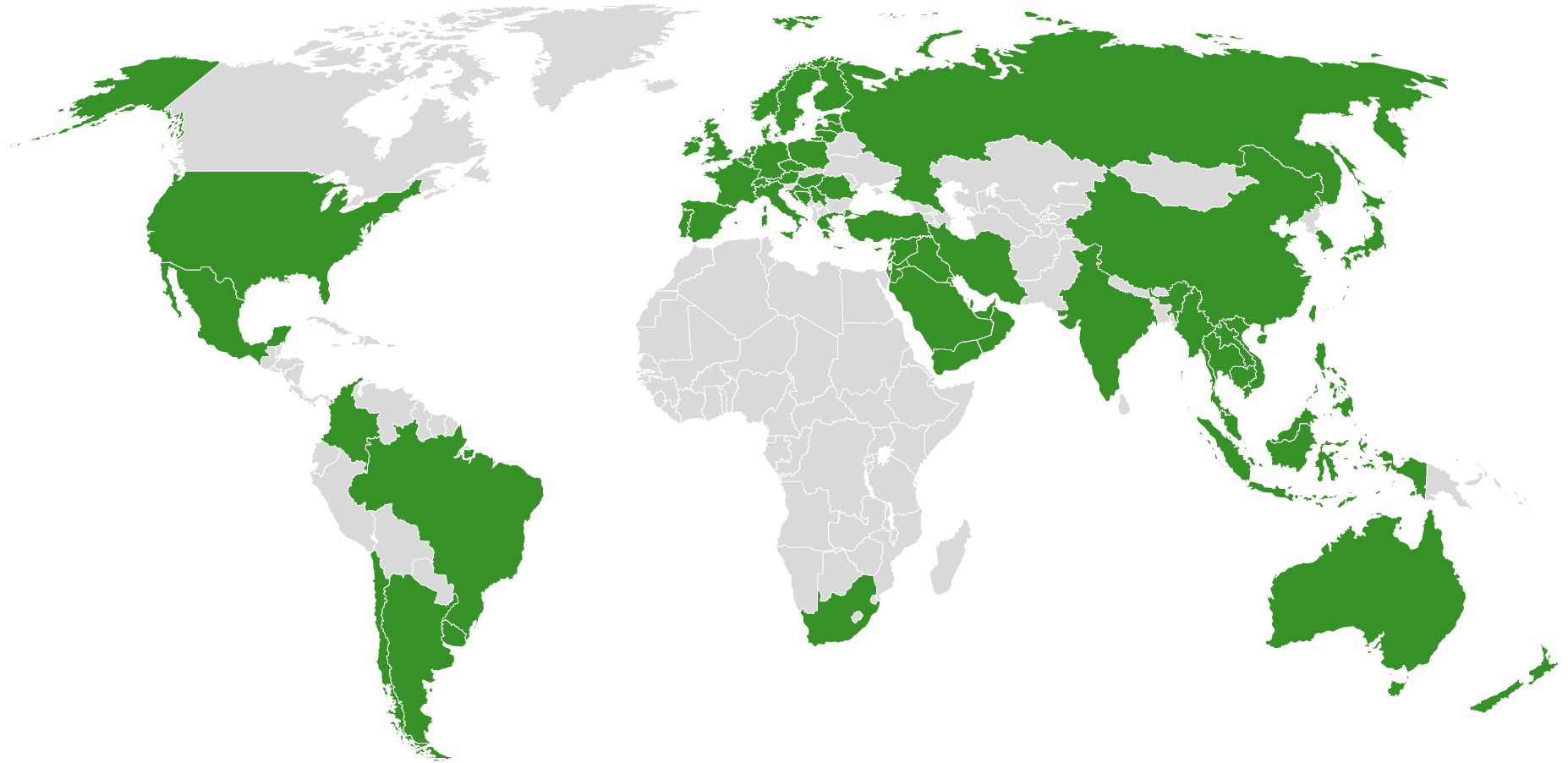
45 KNX National Groups



Local associations promoting KNX in different regional markets

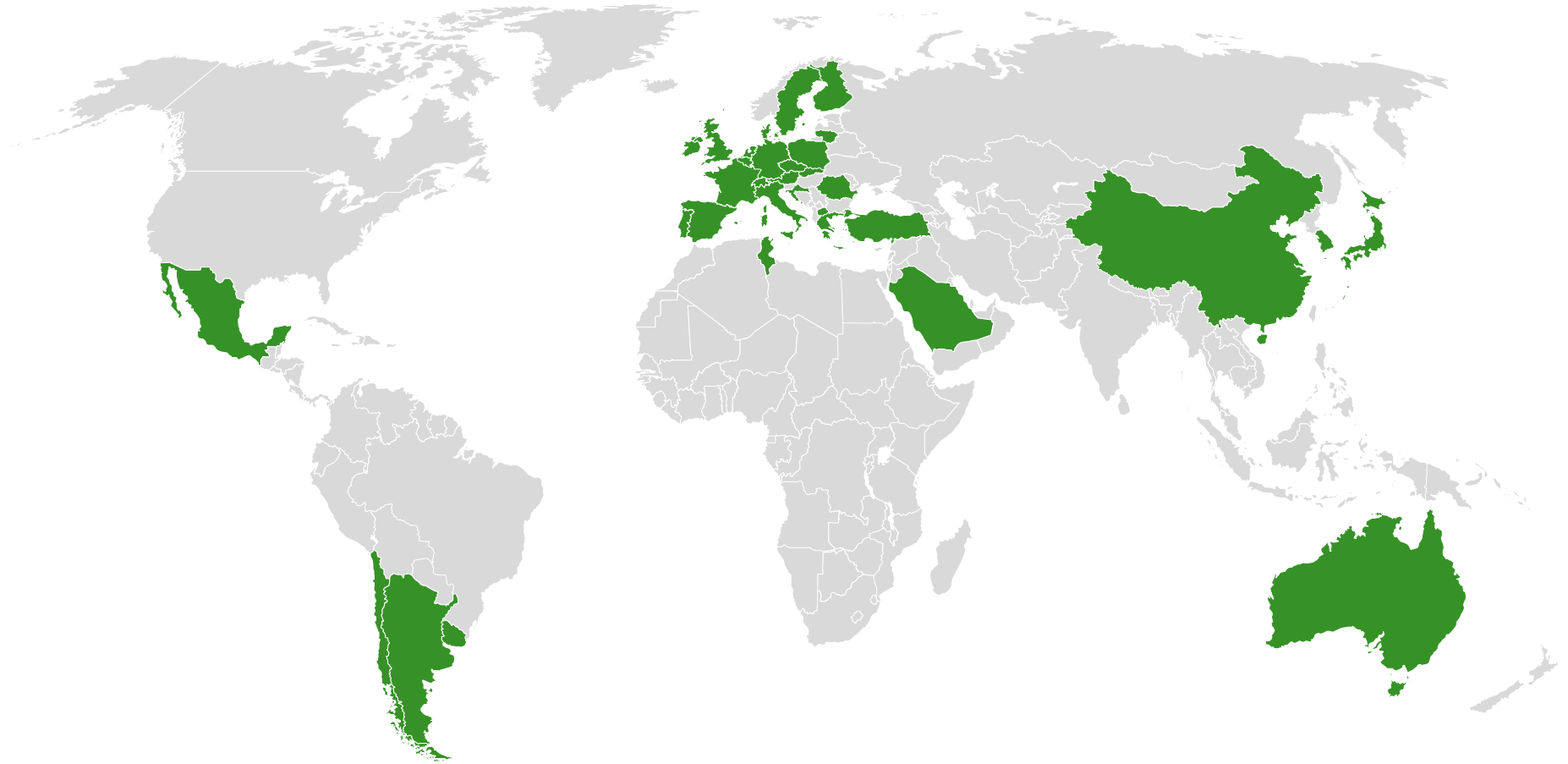


45 KNX National Groups



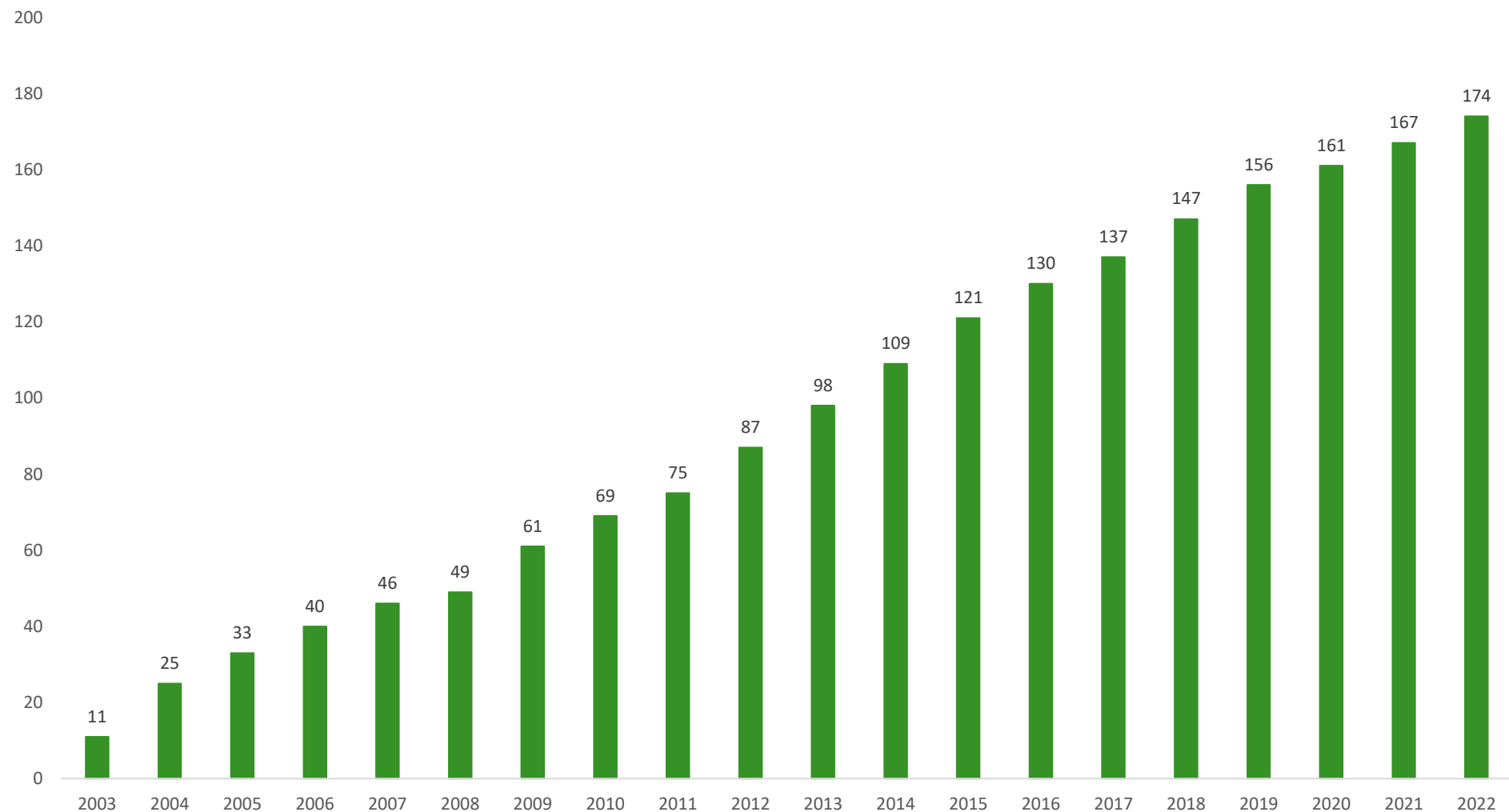


177 Scientific Partners in 40 countries





KNX Scientific Partners



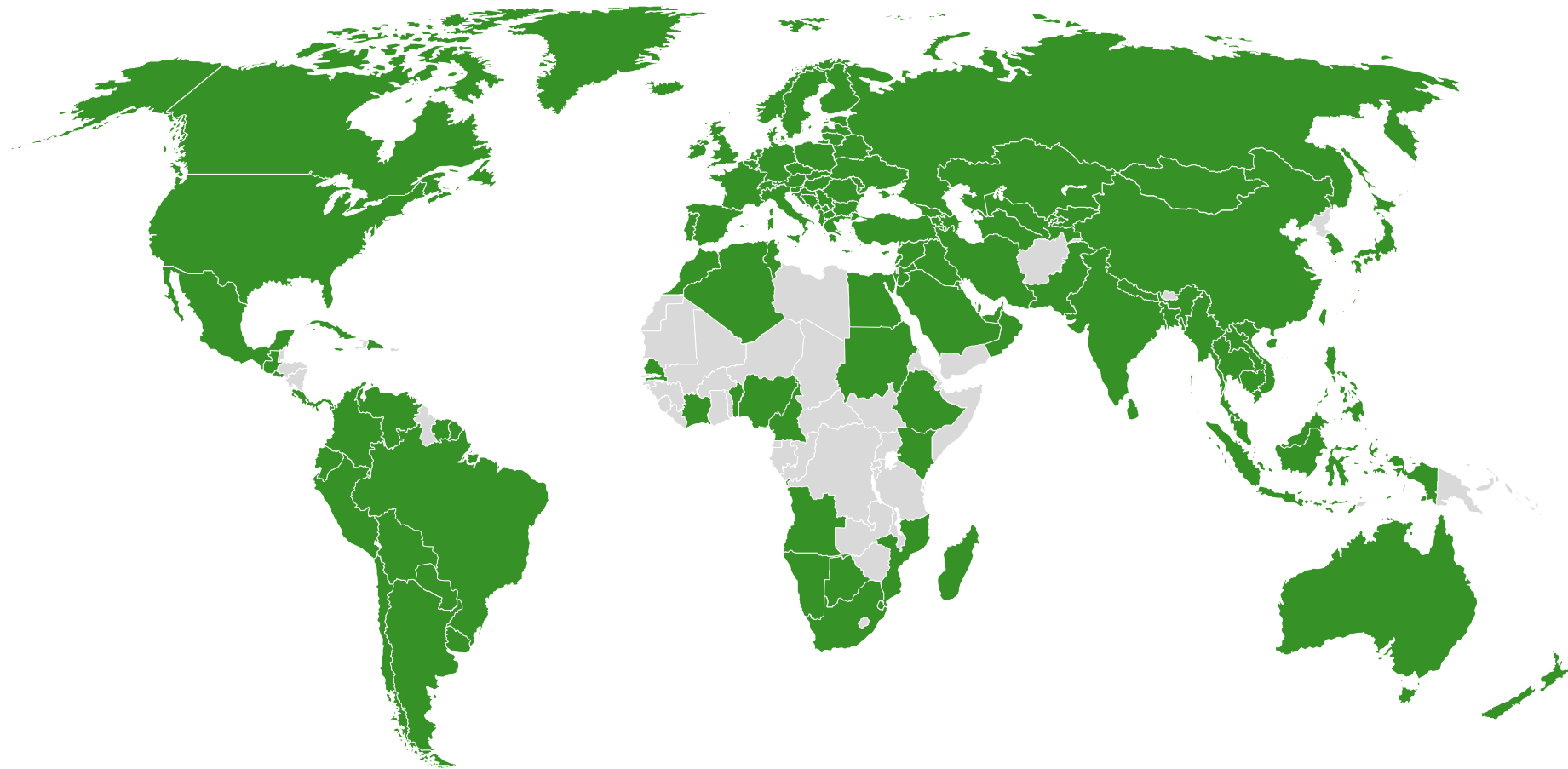


24 Associated Partners



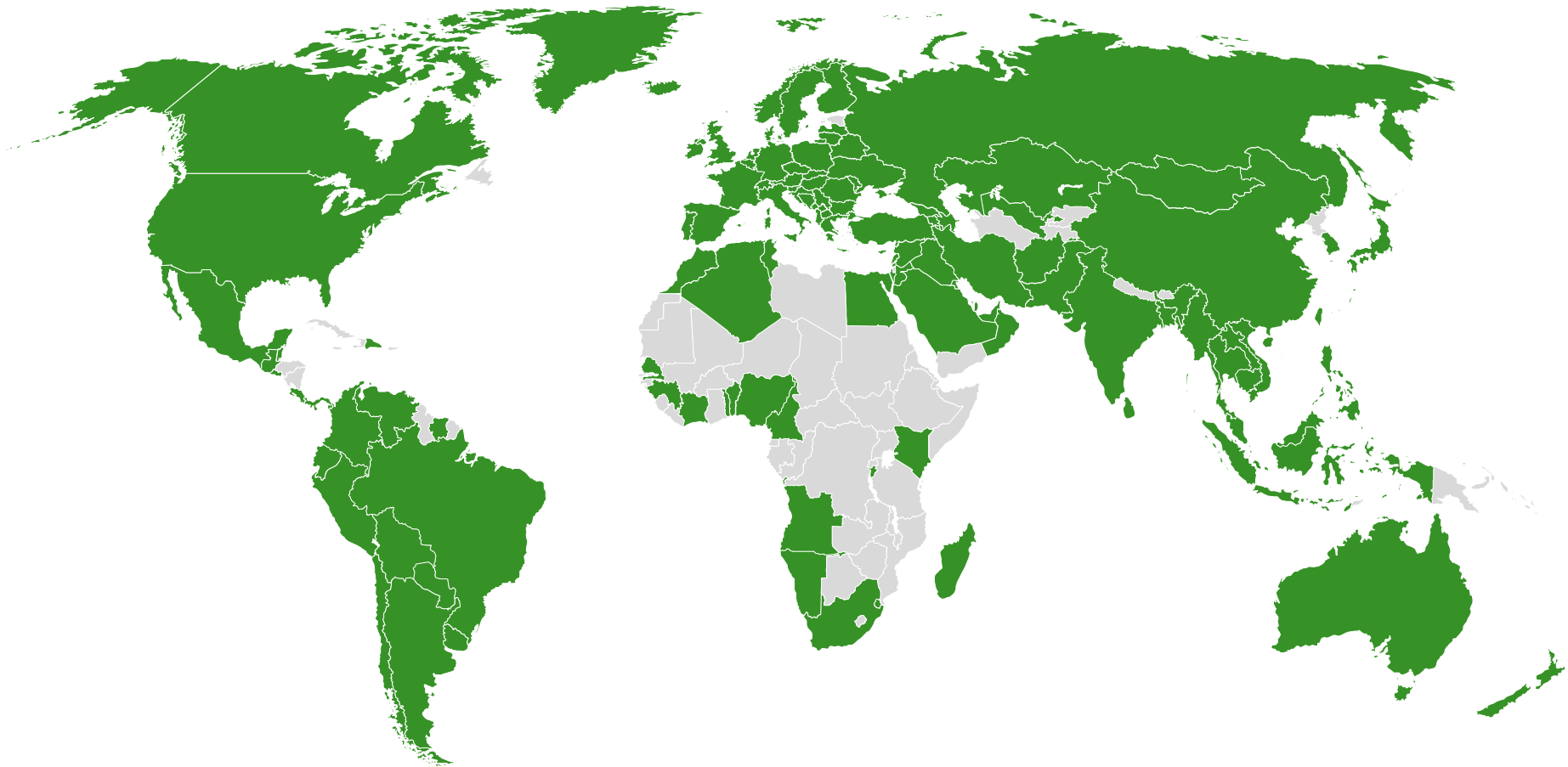


KNX Projects in more than 190 countries





ETS Sold in 160 countries





500

KNX Manufacturers



in 45 Countries

8000 KNX Certified Products

111219

KNX Partners



in 171 Countries

505

KNX Training Centres



in 72 Countries

177

KNX Scientific Partners



in 36 Countries

**23 KNX Userclubs /
Professionals**



in 20 Countries

**24 Associated
Partners**



45 KNX

National Groups



17 Test Labs



in 9 Countries

ETS Sold



in 155 Countries



Market Research Study 2021

ORGANISER

Online Magazine: Hiddenwires
IML Group

SCOPE

Worldwide, mostly European study.
Target group: Integrators working in the smart home market

REACH

Database: 60.000
Sample size achieve: 8.012

hiddenwires





Conclusions

1. **KNX** ranked the **top 1st communication protocol/ecosystem** known by industry professionals present in the smart home market
2. **62+%** Smart Home professionals specify the KNX technology in their integration projects.
3. **KNX is 3 times ahead** of main competitors present in the smart home market (CSA/Zigbee....)



62%





READ the hiddenwires article here

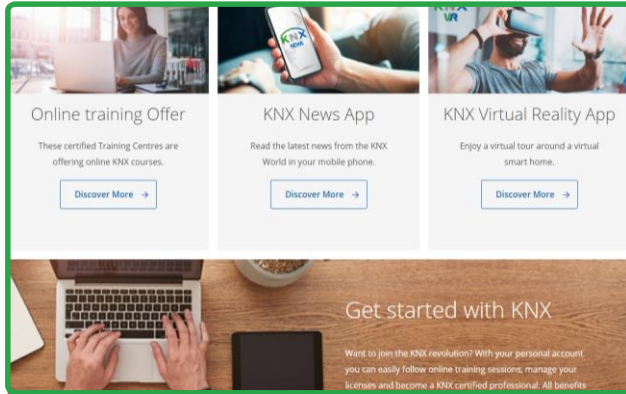
<https://www.hiddenwires.co.uk/features/article/state-of-the-smart-home>

State of the smart home





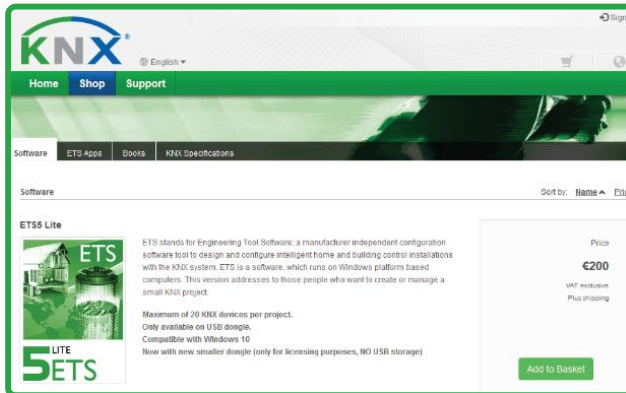
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