



CHAdeMO

CHAdeMO in Europe **2018-2019**

Tokyo, 27 May 2019

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CHAdeMO in Europe 2018-2019

欧州のチャデモ

- 電気自動車
- 充電器
- 会員
- チャデモイベント
- 共同展示

欧州市場キーワード

- ハイパワー
- 石油メジャー
- V2G

まとめ

CHADEMO STATS

- EVs
- Chargers
- Members
- Meetings
- Stands

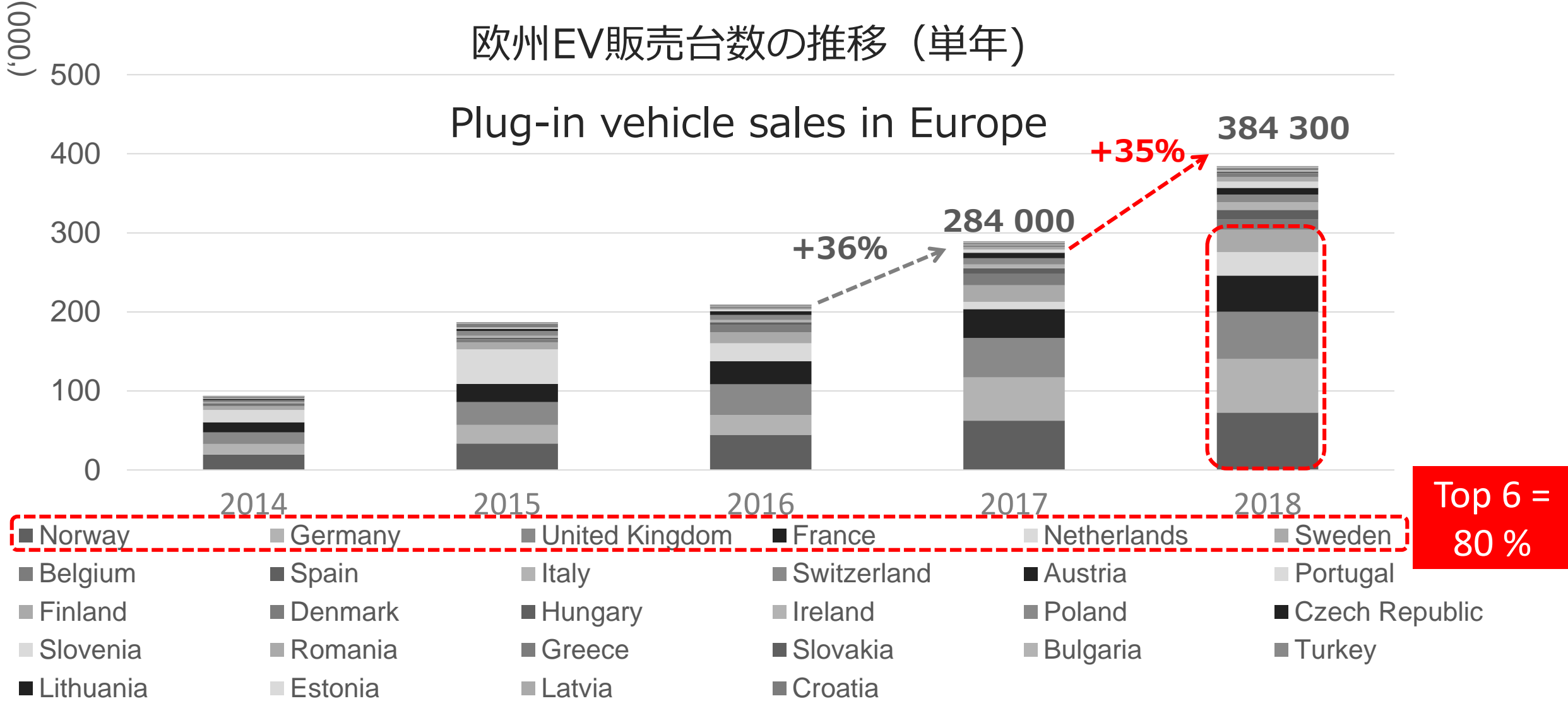
MARKET TRENDS

- HPC
- Oil major participation
- V2G

WRAP UP



欧州EV市場は順調に推移 EU plug-in market growth continues



Note: Passenger cars only. Source: ACEA, IEA EV Outlook 2018, JATO

ノルウェーが首位を守るも独英仏も加速

TOP 6: Norway keeps its lead but Germany, UK and France accelerate

販売台数
(台/年)

100000

EV販売台数 EV sale (BEV + PHEV)

■ 2013 ■ 2014 ■ 2015 ■ 2016 ■ 2017 ■ 2018

50000

0

Norway

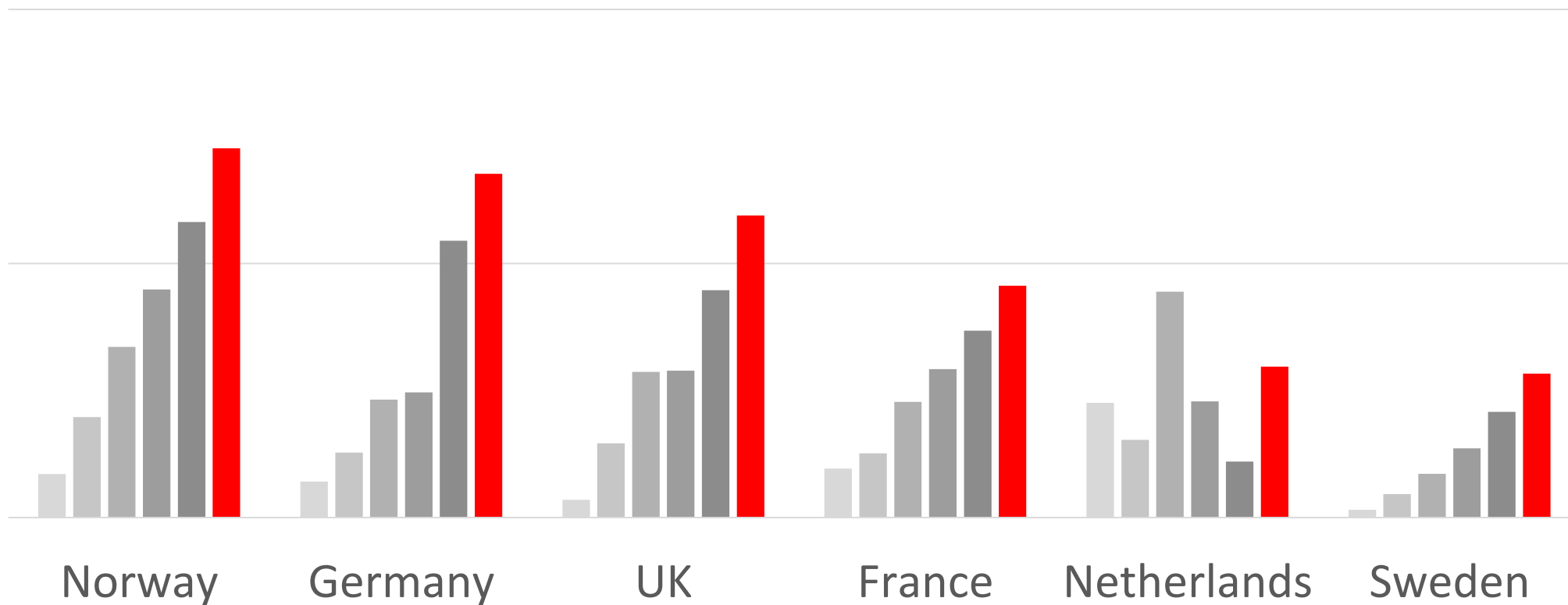
Germany

UK

France

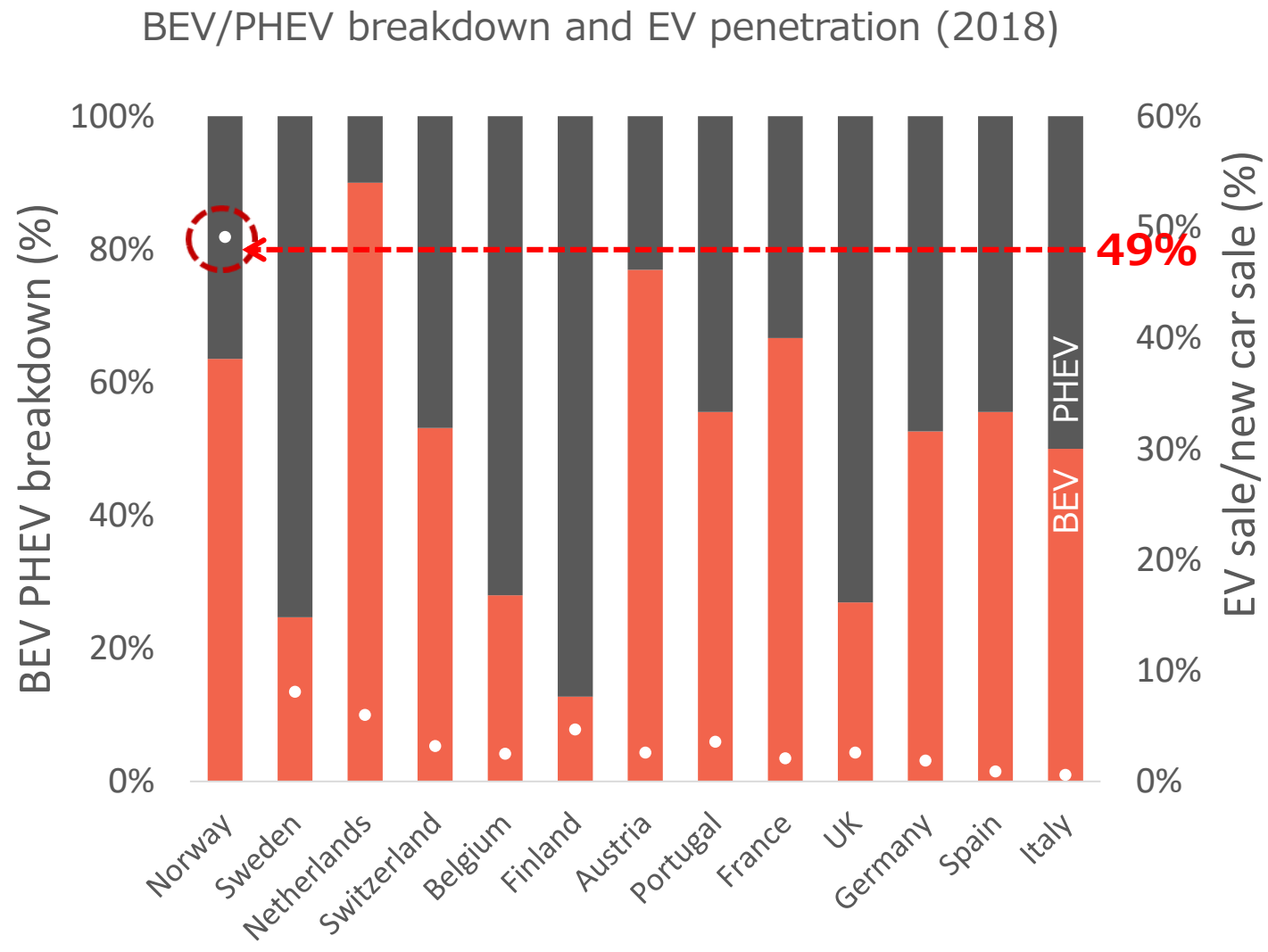
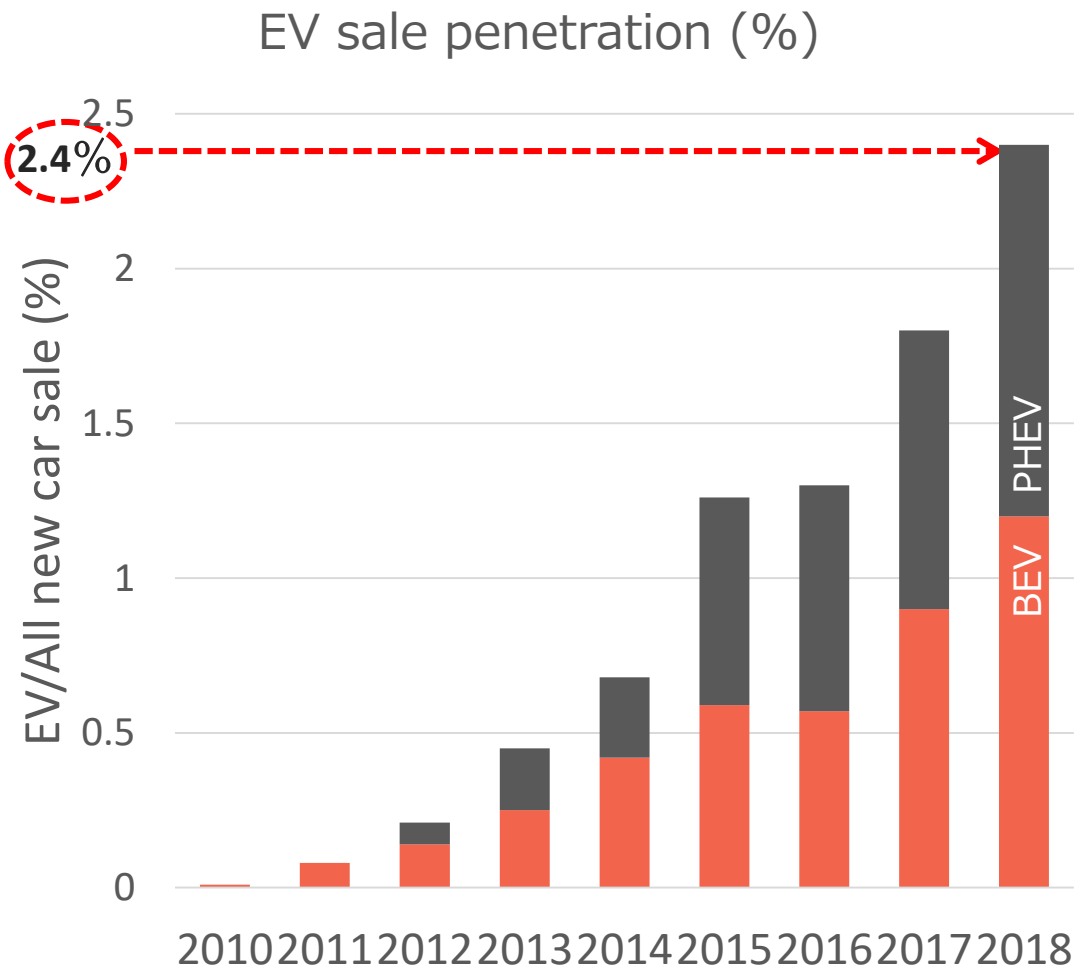
Netherlands

Sweden



それでも新車市場の2%強でBEV/PHEVの内訳も国ごとにばらつき

EV sale penetration remains low (apart from Norway) and BEV/PHEV mix varies

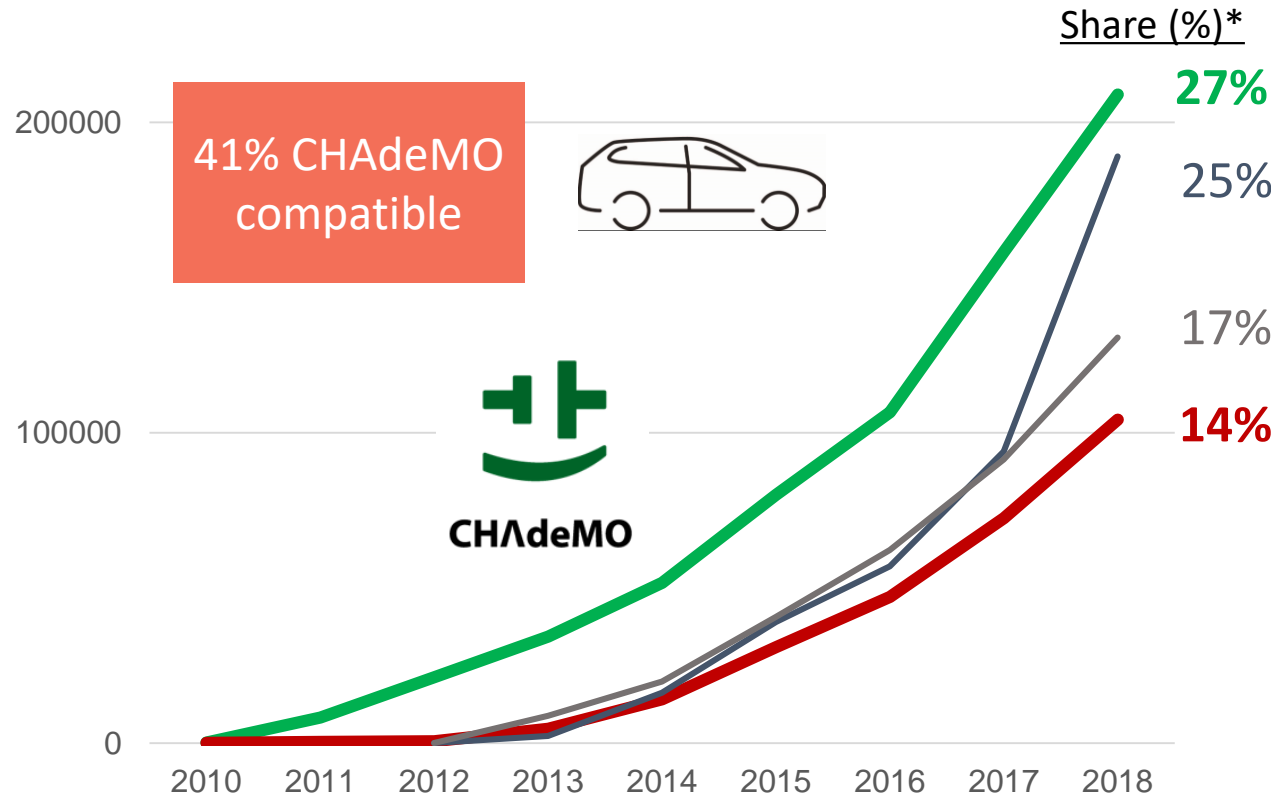


Source: EAFO (EU28+EFTA+Turkey), ACEA (EU24+EFTA), CHAdeMO EU analysis

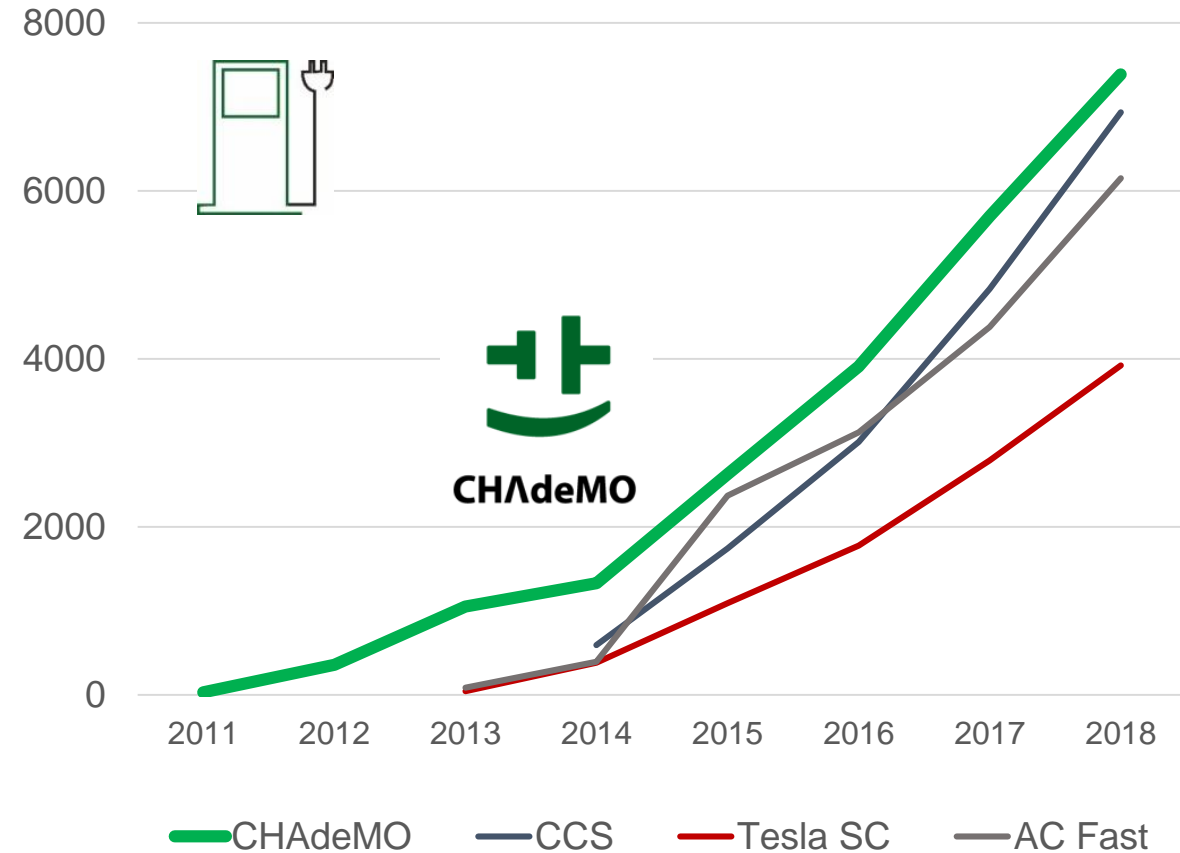
欧州では車も充電器もチャデモがトップ維持

CHAdeMO charge points and plug-ins in Europe remains the biggest

Cumulative European BEV sales by fast charging inlet type (2010-2018)



Evolution of EU fast charge points (cumulative)



Source: EAFO, JATO, EV-volumes.ocm; BEVs only

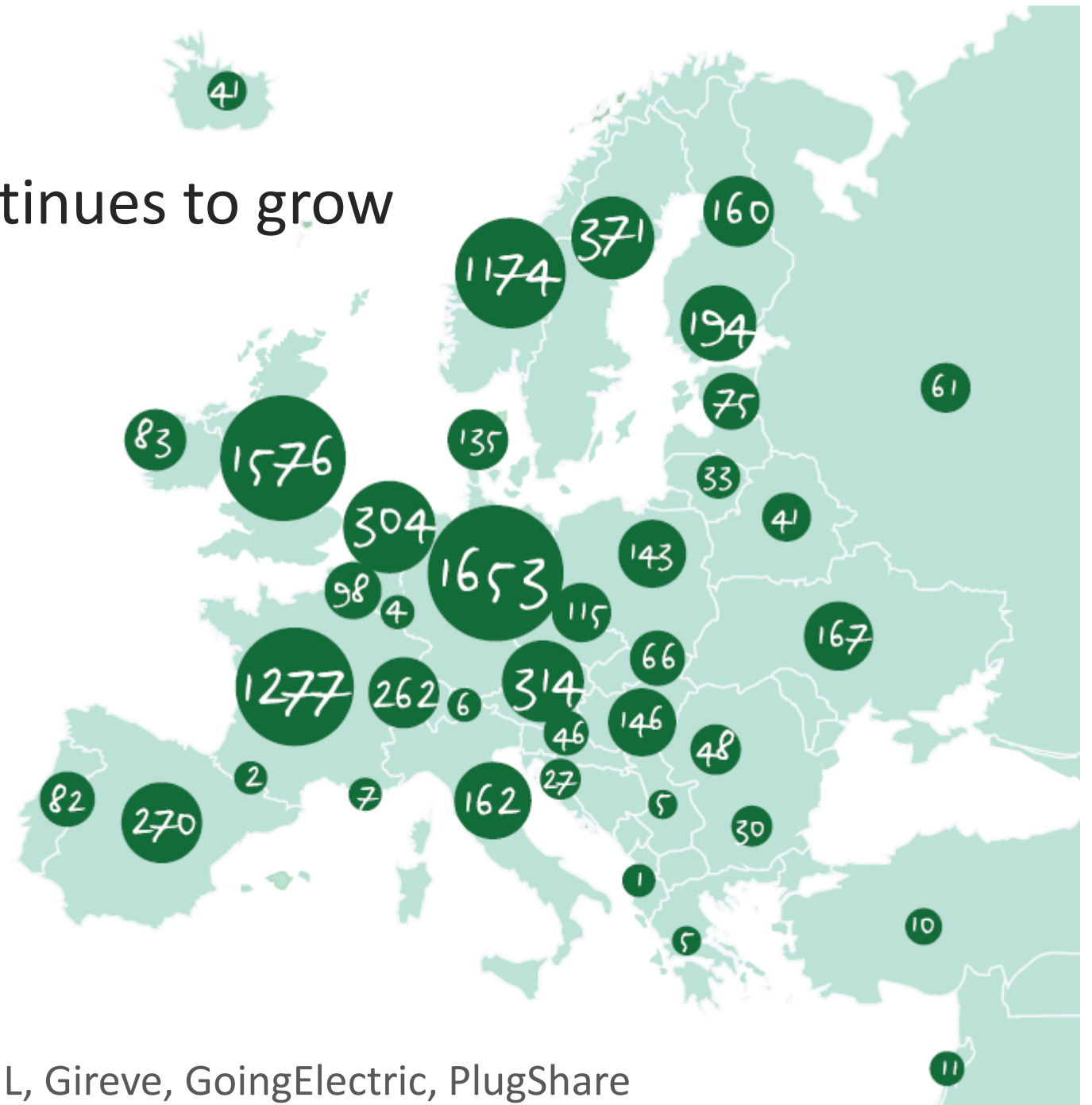
*Total does not include non fast-chargeable BEVs (17%)

Source: EAFO, AC fast > 22kW

チャデモ充電器は順調に増加 CHAdeMO charger points continues to grow

TOTAL

9 200



Note: as of April 2019

Source: ChargeMap, EAFO, Zap-Map, NOBIL, Gireve, GoingElectric, PlugShare

欧州地区チャデモ会員も増加の一途

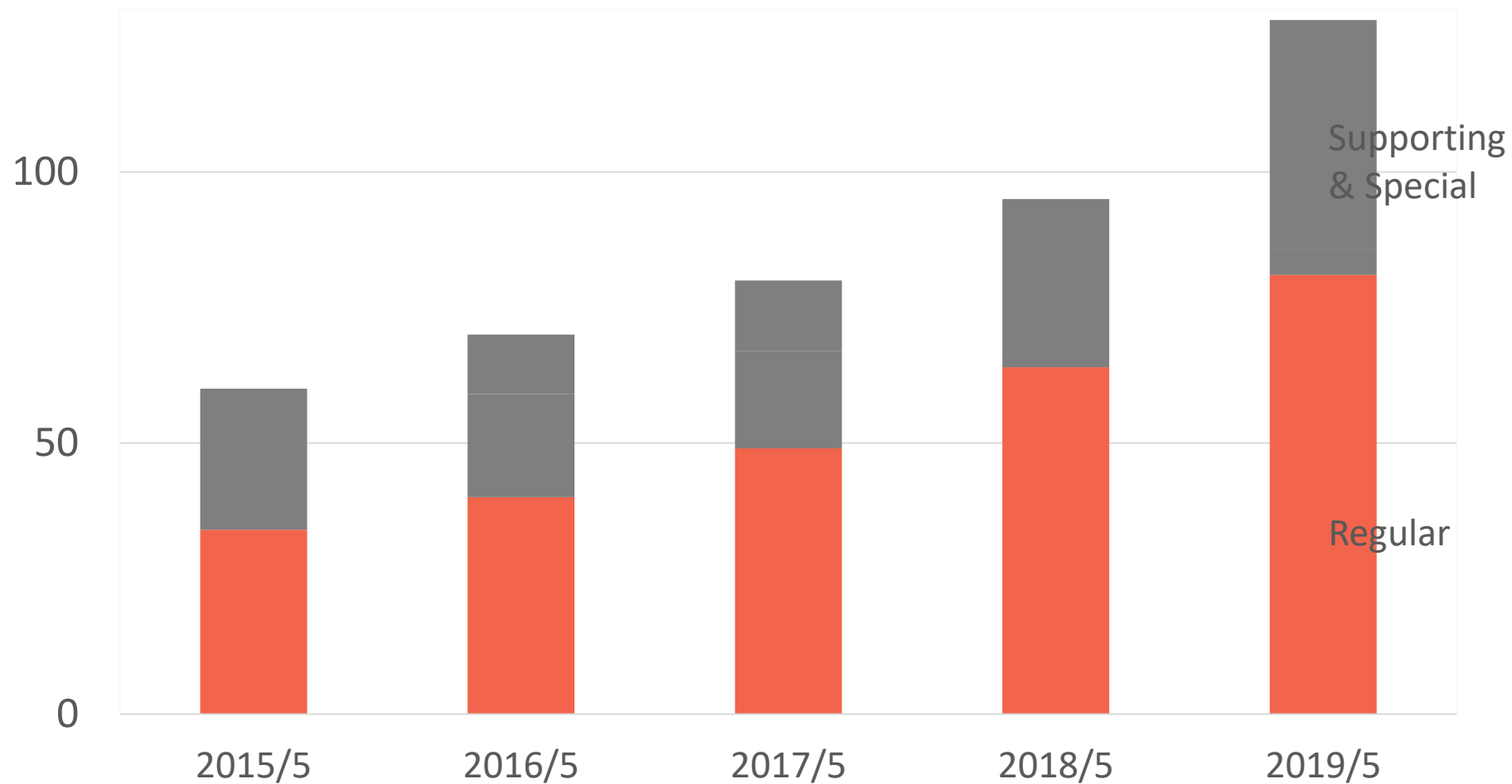
... and so do CHAdeMO members in Europe

130

EU members

26

Countries



チャデモ@イベント

CHAdEMO EU activities: Member meetings

○ 欧州会員総会

Annual European member meetings

- #8: Stuttgart, 10/11/2017 (EVS30)
- #9: Munich, 10/17/2018 (eMove360)
- **#10: Lyon, 22/05/2019 (EVS32)**



○ 欧州技術WG会合

Technical meetings

- F2F -- Munich, 10/17/2018 (eMove360), Lyon (05/22/2019)



- **高出力接続試験**
HPC Connection test event – Lucerne, 06/19-21/2018 (EVTEC)
- **チャデモ3.0進捗報告会議**
CHAdEMO 3.0 update telco
 - V3.0 preliminary specs (03/28/2019)
- **プラグ・アンド・チャージ小部会**
PnC Task Force
 - 01/15, 03/28, 05/21

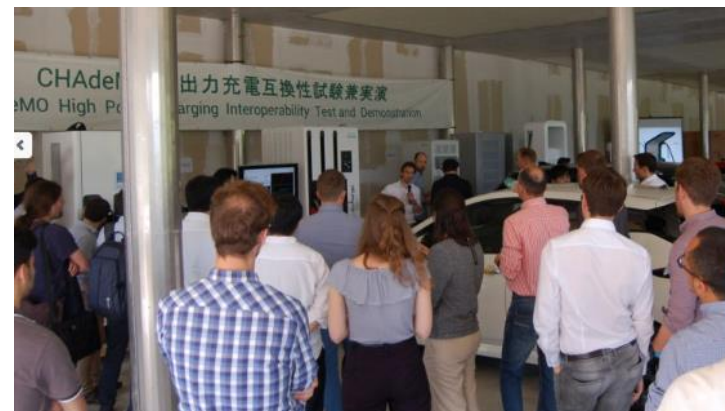
チャデモ@高出力接続試験 HPC connection test & demo

Date & Venue 19-21 June, Lucerne,
Switzerland

Objective Technical WG reach-out activity to:

- test high-power charger-EV interoperability
- exhibit various CHAdeMO applications
- encourage information exchange amongst Regular Members

Participation 76 participants from
31 companies



チャデモ@ブース

CHAdeMO booths at trade fairs

- **Cluster** effect: an ideal one-stop destination
- **Hassle-free** preparation
- **Share costs** amongst co-exhibitors

2018:



Hannover Messe
04/23-27, Hannover (45 sqm)



EVS31
09/30-10/2, Kobe
(72sqm)



eMove360
10/16-18, Munich (32 sqm)

2019:

- EVS32 (19-22/05/2019, Lyon, 81sqm)
- Cenex LCV?
- eMove360?



チャデモ@Emobilityイベント

UK Zero-Emission Vehicle Summit and Cenex LCV

Cenex LCV, Milton Keynes, 09/12-13

V2X Panel discussion



ZEV Summit, Birmingham, 09/11-12

V2X Panel discussion



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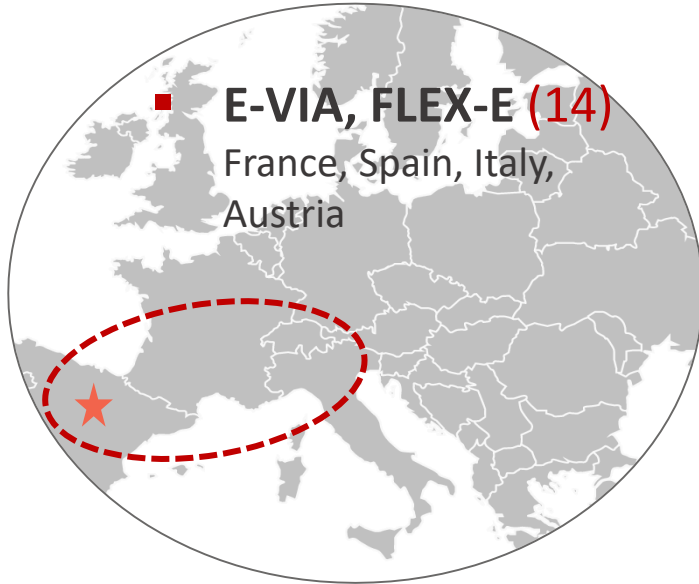


1: HPC HPC充電器品揃え充実 HPC chargers!



1: HPC チャデモHPCネットワークの設置始まる

CHAdEMO high-power charger (HPC) installation example



- 電力会社IBIL (Repsol傘下) とBasque Energy Agency (EVE)による欧州委員会補助事業。スペイン・バスク地方で (★) EU補助のE-VIA/FLEX-E事業のCHAdEMO 100kW HPC 4基を設置

Lopidana (★) is a town in Spain, where Ibil, a Repsol company, and the Basque Energy Agency (EVE) installed 4 x 100kW HPC - CCS (up to 350 kW) and CHAdEMO (up to 100 kW) - in April 2019.



2: International Oil Majors オイルメジャーの参入 Majors enter the market



Shell: utility, CPO, V2G



BP: charger manufacturer, CPO



Total: utility, CPO

HPC network of 300 locations in 5 EU countries

3: V2G 市場の関心大いに高まる

High interest in V2G



3: V2G 欧州発新製品市場参入へ European new V2G products



eNovates /the New Motion:
Wall-mountable V2G (10kW)



OVO/Indra:
V2G for home(6kW)



Wallbox:
DC V2X (7.4kW)

Photo courtesy of
Narcis Vidal, Enel X

Thank you
for your
continued
support for
CHAdeMO!



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