



CZECHINVEST
Investment and Business Development Agency

E-mobility in the Czech Republic

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MINISTRY OF
INDUSTRY AND TRADE

CZECHINVEST

Investment and Business Development Agency



Ministry of Industry and Trade



CzechInvest

Investment and Business Development Agency



mission

to **support** foreign direct investment

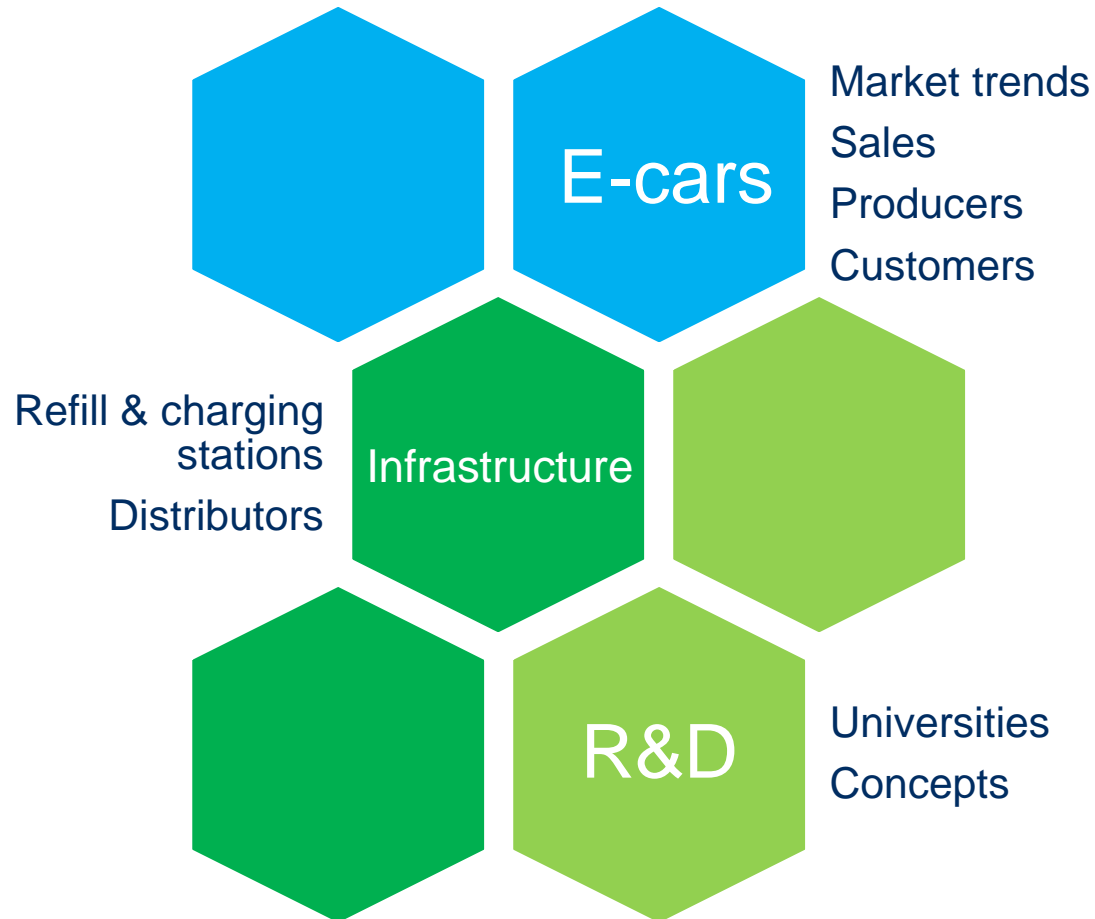
to **develop** local companies

to **implement** business-development programs

to **improve** the business environment

Source: CzechInvest, 2014

E-mobility background



Germany – Czech Republic comparison



- 61.5 mil motor vehicles
- 766 vehicles per 1,000 people
- **12.156** electric vehicles

penetration
0.0197 %

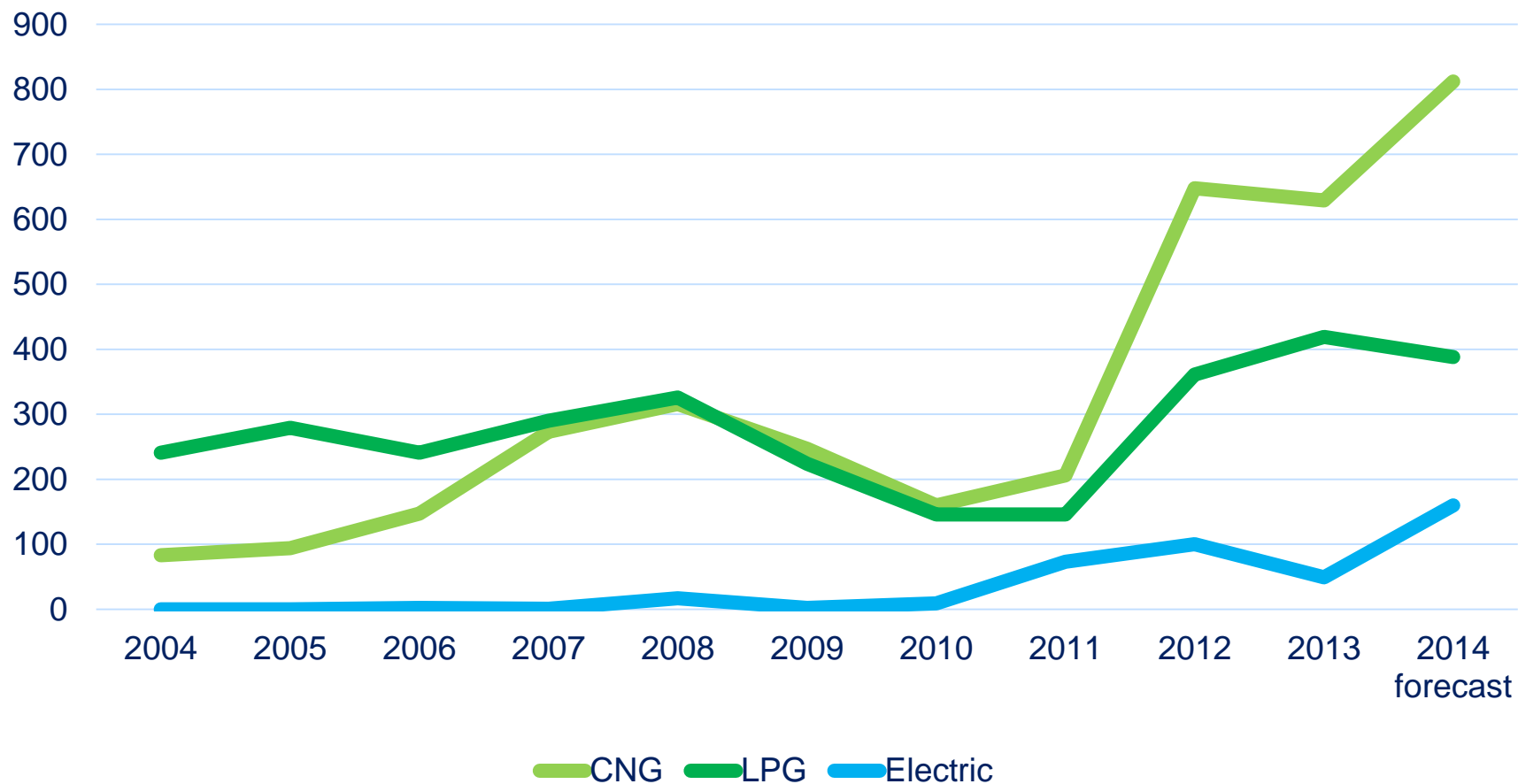


- 6.8 mil motor vehicles
- 639 vehicles per 1,000 people
- **329** electric vehicles

penetration
0.0049 %

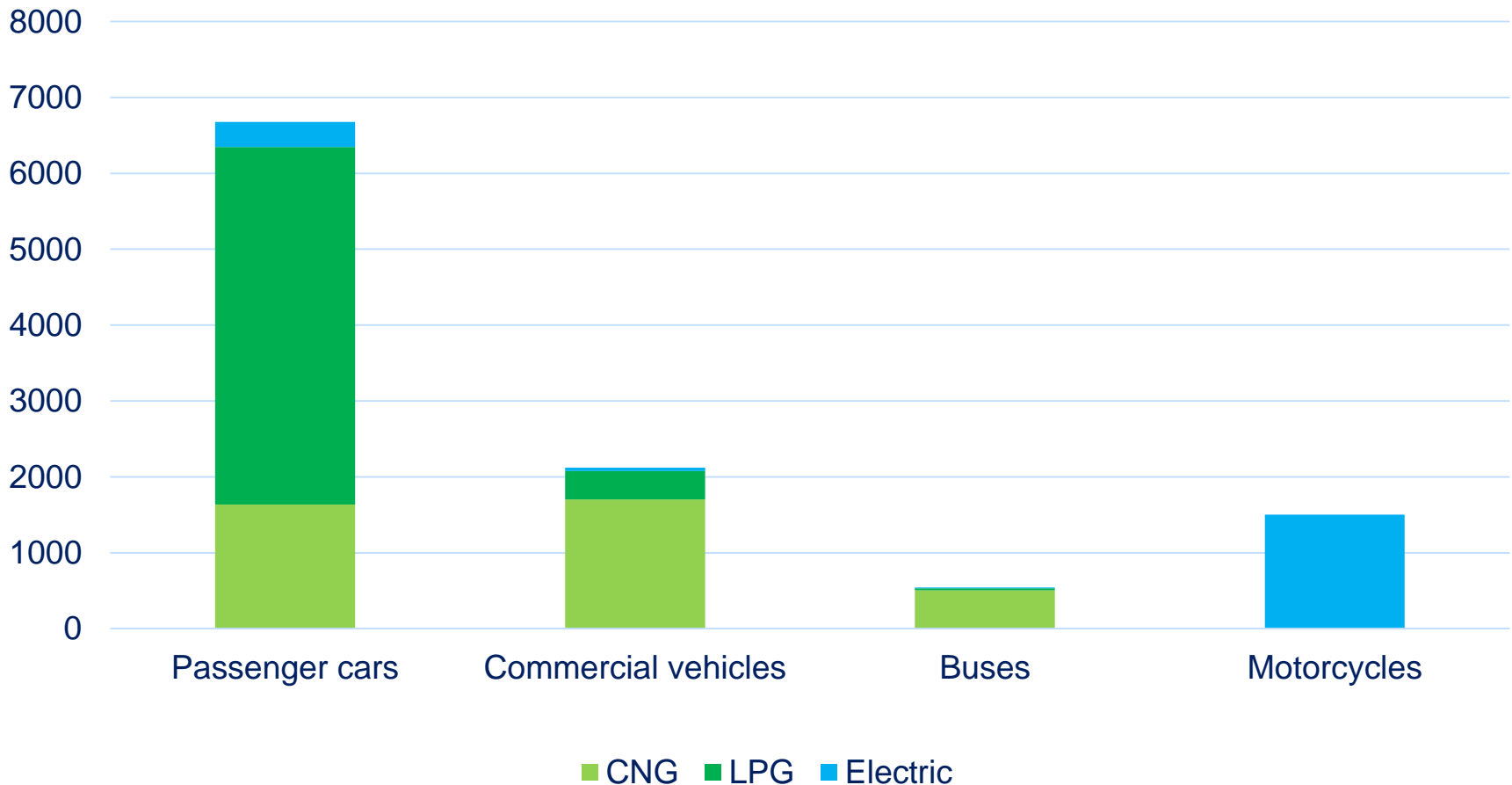
Source: Ministry of Transportation, 2014

Alternative fuels – market trends











Source: Ministry of Transportation, 2014

Alternative fuels on the motor vehicle market



Source: Ministry of Transportation, 2014

Best-selling brands of electric cars

	Brand	Registered electric cars (2004-2014)
	Peugeot	84
	Citroën	48
	Nissan	34
	BMW	25
	Smart	23
	Tesla	22
	Volkswagen	16
	Toyota	12

Source: Ministry of Transportation, 2014

Producers focus on public transportation

SOR Libchavy

- An original Czech bus producer founded in 1991
- Environmental production strategy



Source: SOR, 2014

Producers focus on public transportation

ŠKODA Electric

- World leading manufacturer of electric drives and traction motors
- Full-electric bus **Perun**
- Hybrid bus **H12**

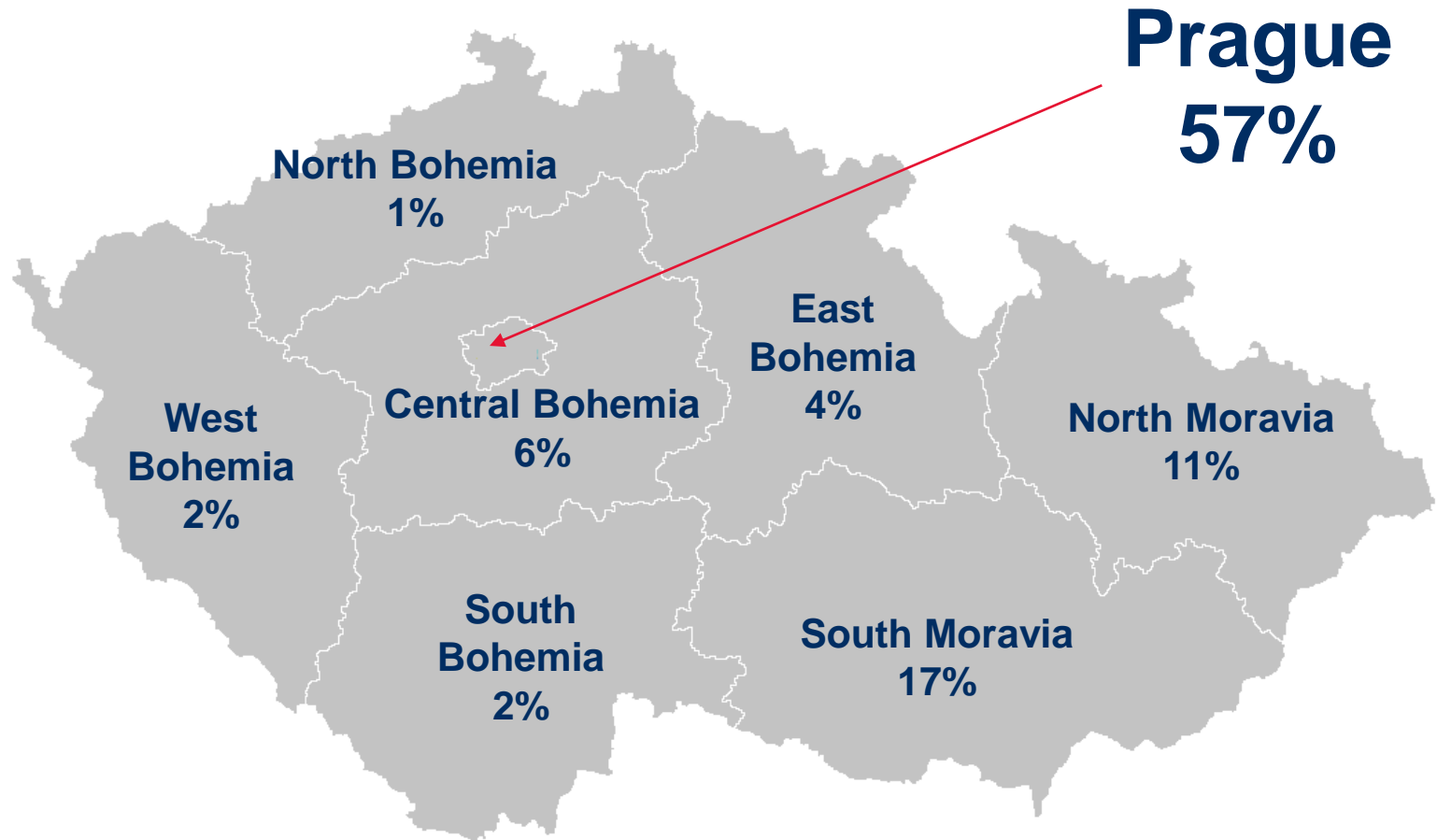


Martin Matějka (2014)



Source: ŠKODA Electric, 2014

Most of the e-cars are sold in Prague



Source: Ministry of Transportation, 2014

Potential for electric car-sharing

- Big cities are supporting car-sharing
- Electricity distributors are building infrastructure
- Car manufacturers are offering financing

e-Car4u.eu



- 35 cars in testing in Prague
- Volkswagen eUp
- Plan: 300+

EMUJ



- 3 cars in testing in Brno
- Peugeot iOn
- Plan: 100+

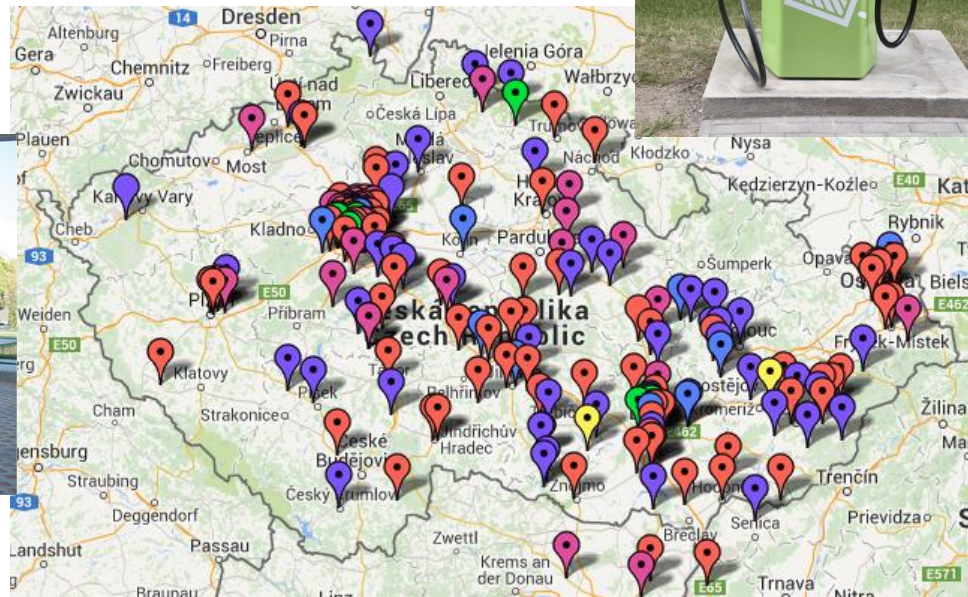
Car2go



?

Faster charging, supercharger is coming

- Approx. **170 charging stations** in October 2014
 - **CEZ Group: 35**
 - **PRE: 19**
- two Tesla Superchargers in 2015,
another two by 2016



Source: ČEZ, 2014; PRE, 2014; Národní spolek, 2014

SCX – the most advanced student car

- Developed within 4 yrs. by students of Technical University of Ostrava – team **StudentCar**
- 4 synchronous electric motors
- **295 HP**
- 0-100 km/h time is **5 s.**
- Range **180 km**



Source: VSB-TUO, 2014

eForce Prague Formula

- Formula Student team based at **Czech Technical University in Prague**
- Three monoposts since 2010
- **Ranked 2nd** at Formula Student 2014 in Italy



Source: CTU, 2014

TriHyBus – a unique triple hybrid bus

- Three power sources:
 - Membrane fuel cell
 - Traction accumulators
 - Ultracapacitors
- Highly efficient
- Zero emissions
- Optimal operating parameters
- Absence of vibrations and noise



Source: TriHyBus.cz, 2014



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