

The Future of Urban Transport

Founder and Chief Scientist Dr. Nathan Jauvtis







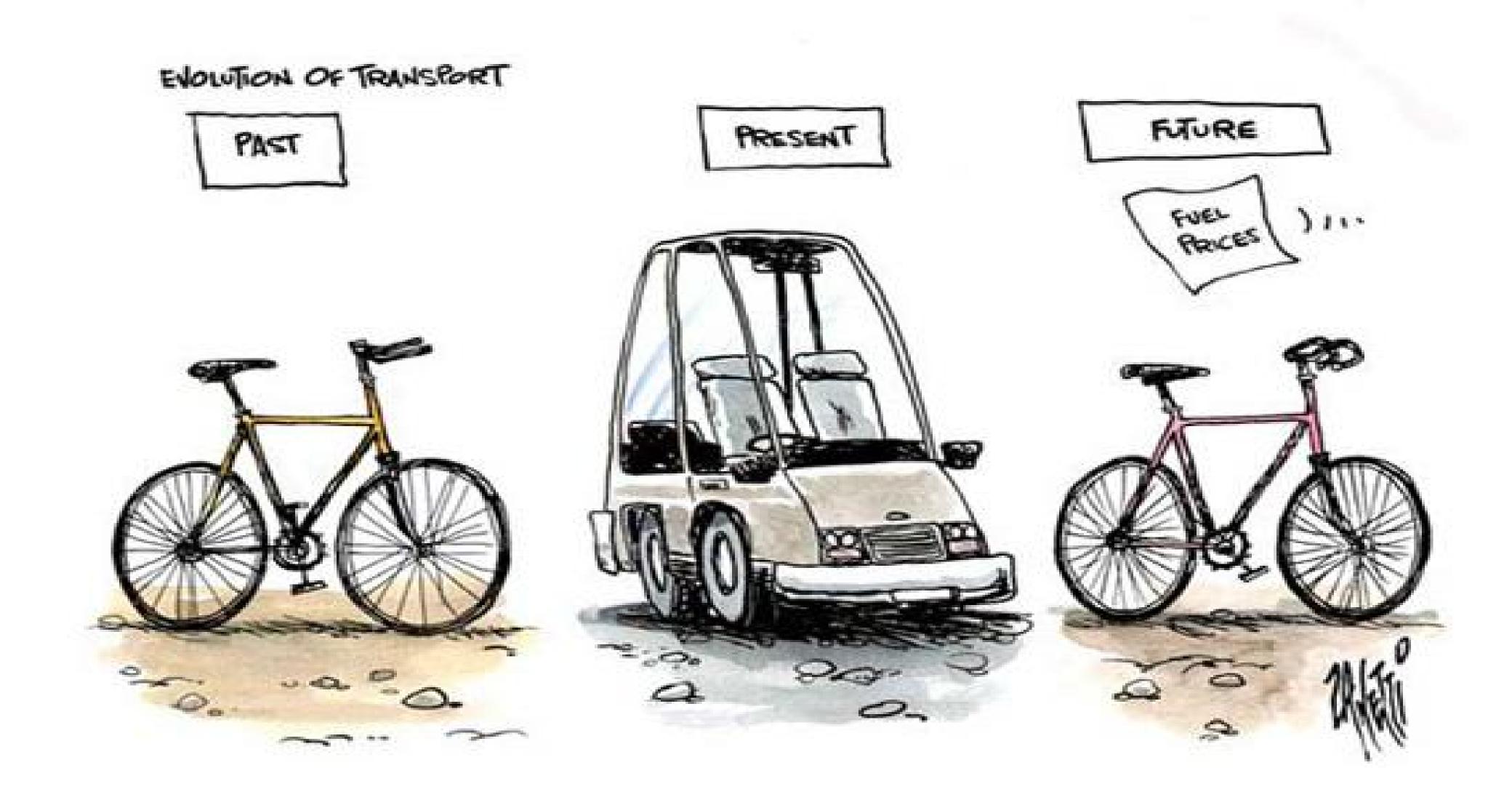








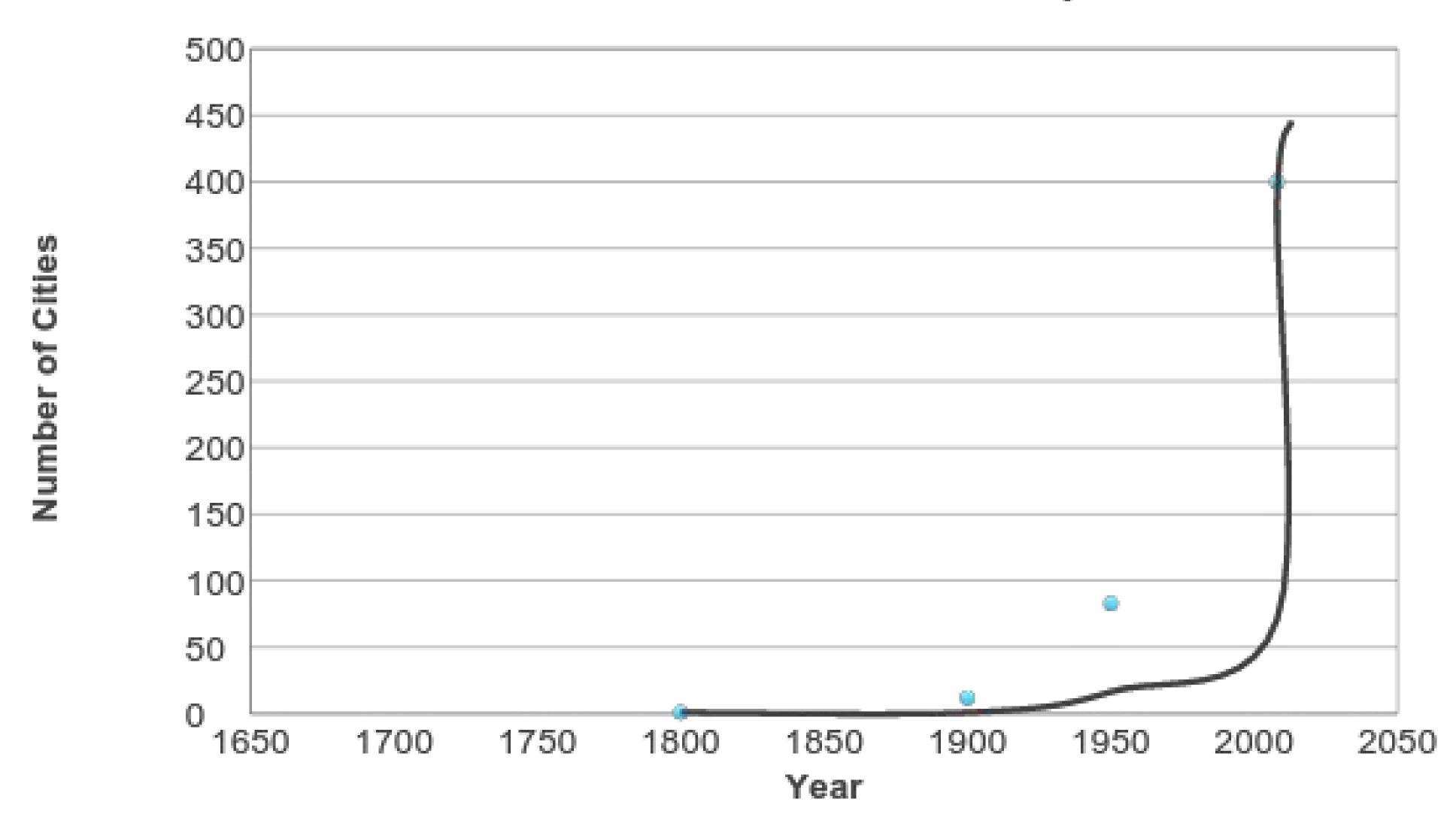


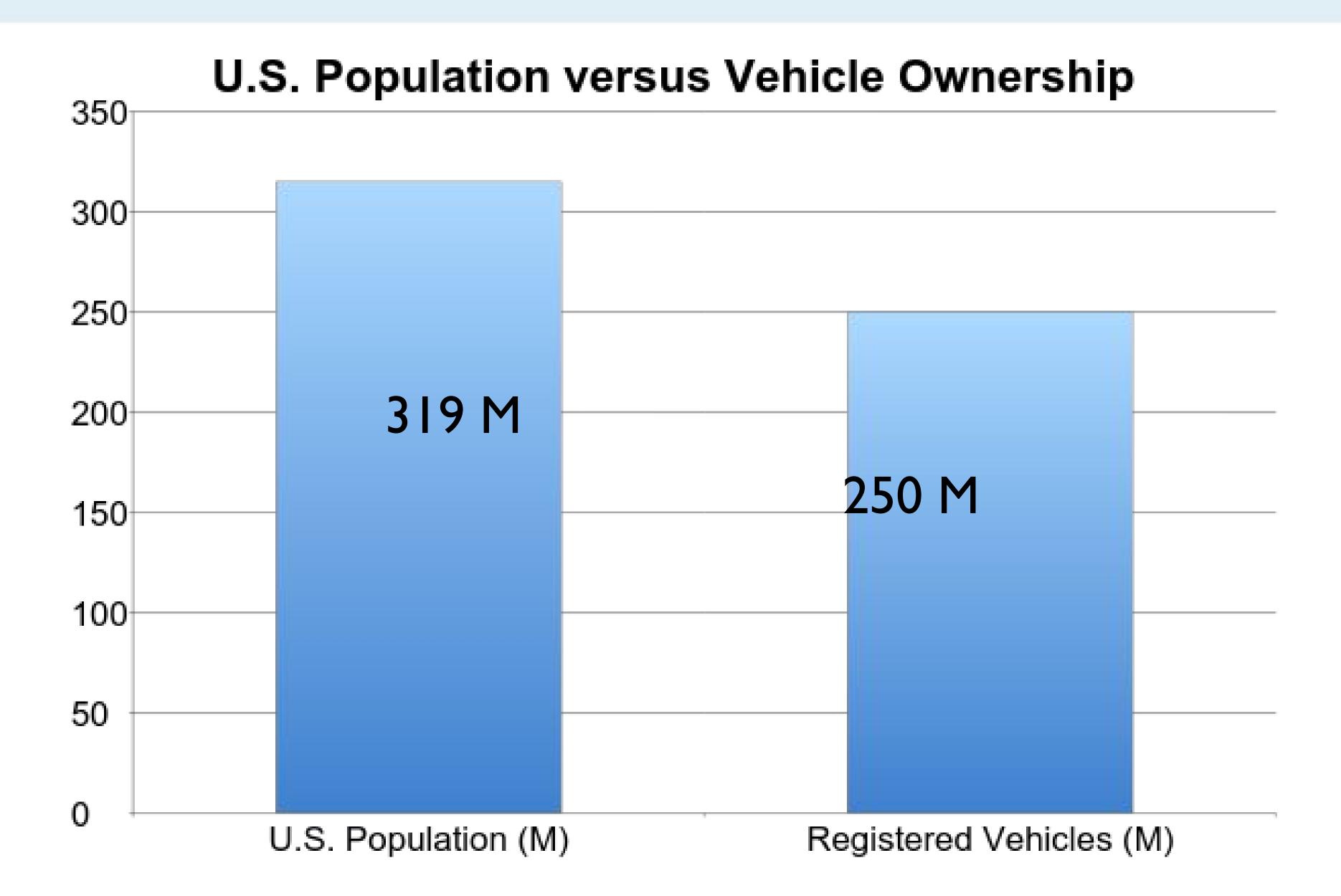


Cities are changing



Number of Cities with 1M+ Population



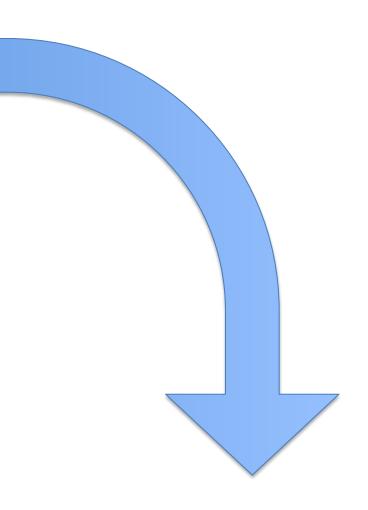


Most trips are short

(Source: 2009 NHTS Report)

- US average car trip: 6 miles
- US average commute: under 14 miles
- Time wasted in traffic: 62 hours per year



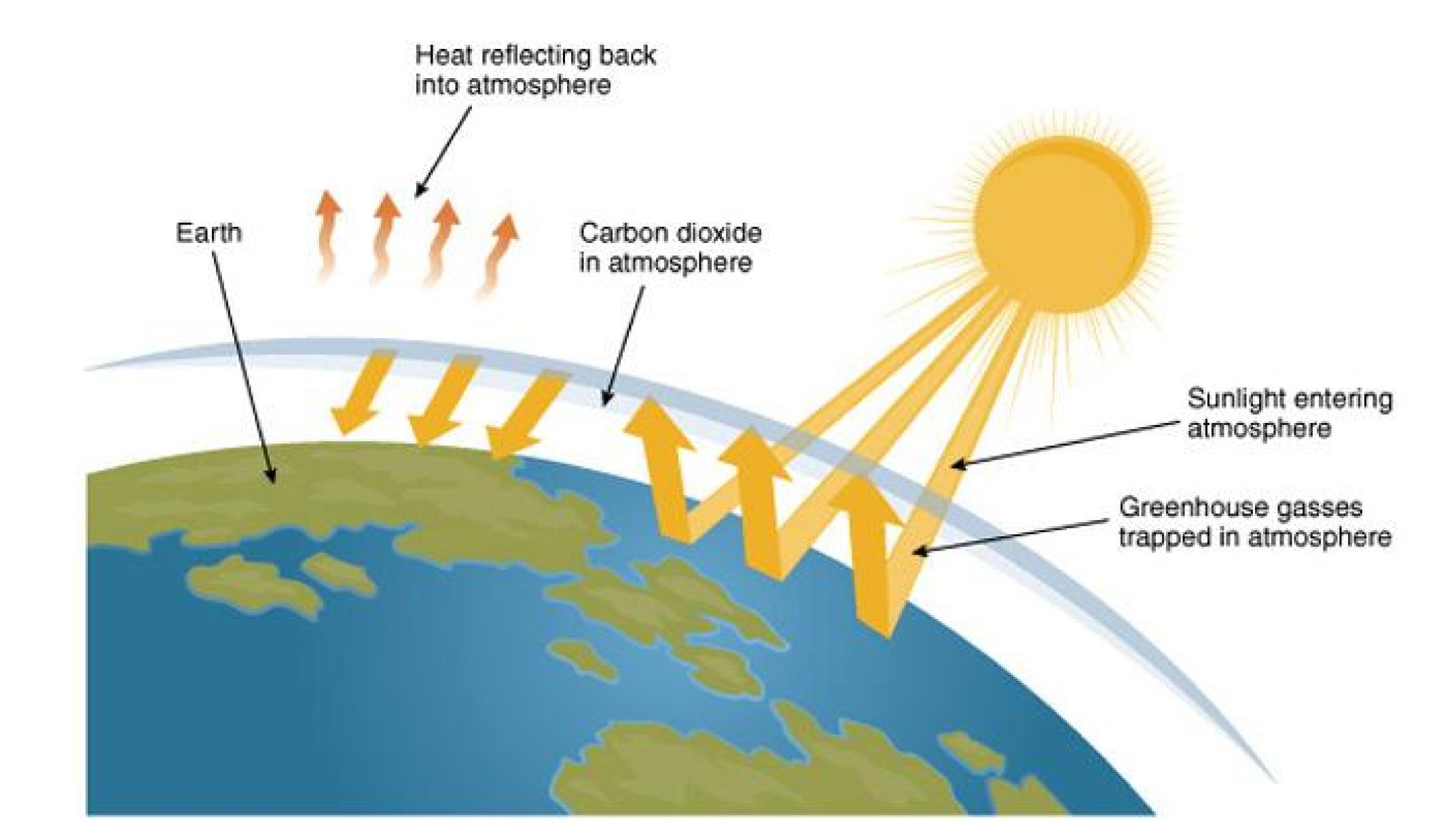


Conventional options don't work

- Cars are hard to park / stuck in traffic / \$\$\$
- Buses are slow / unreliable / stuck in traffic
- Motorcycles are heavy / require a special license
- Bicycles are exhausting / range-limited / slow

Doing nothing makes these problems worse





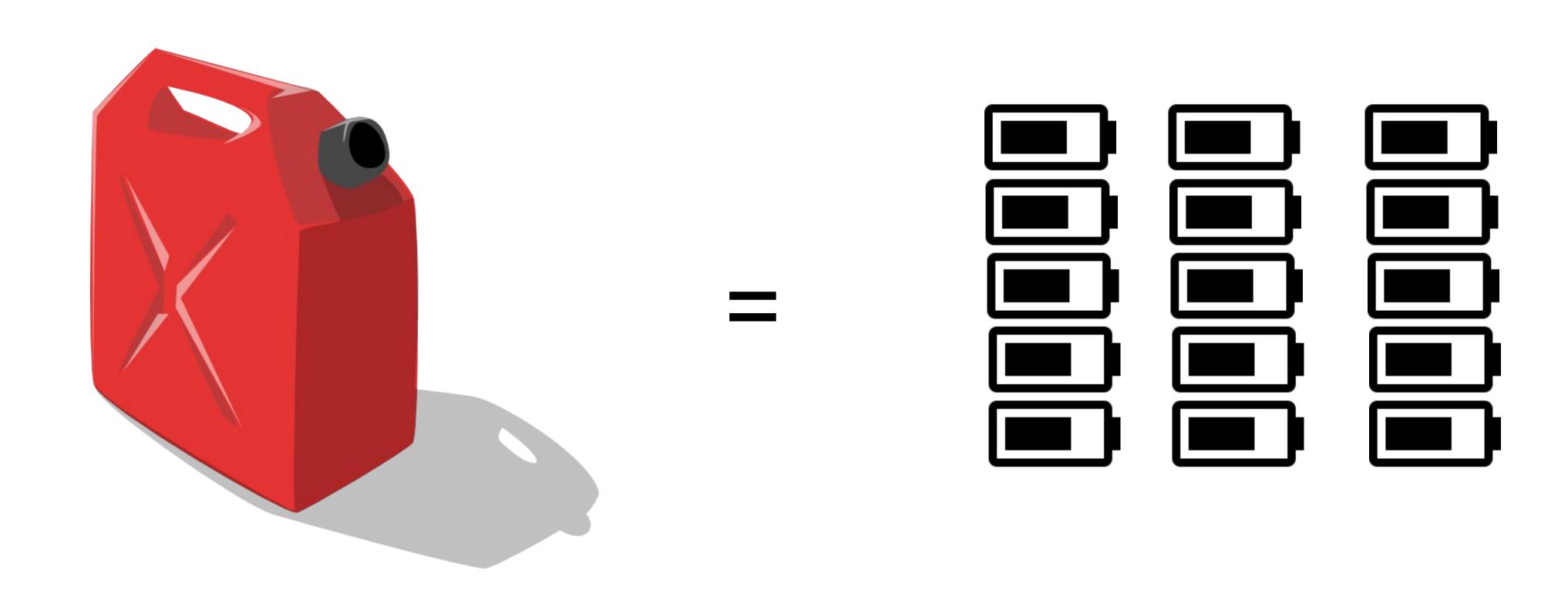
Doing nothing makes these problems worse

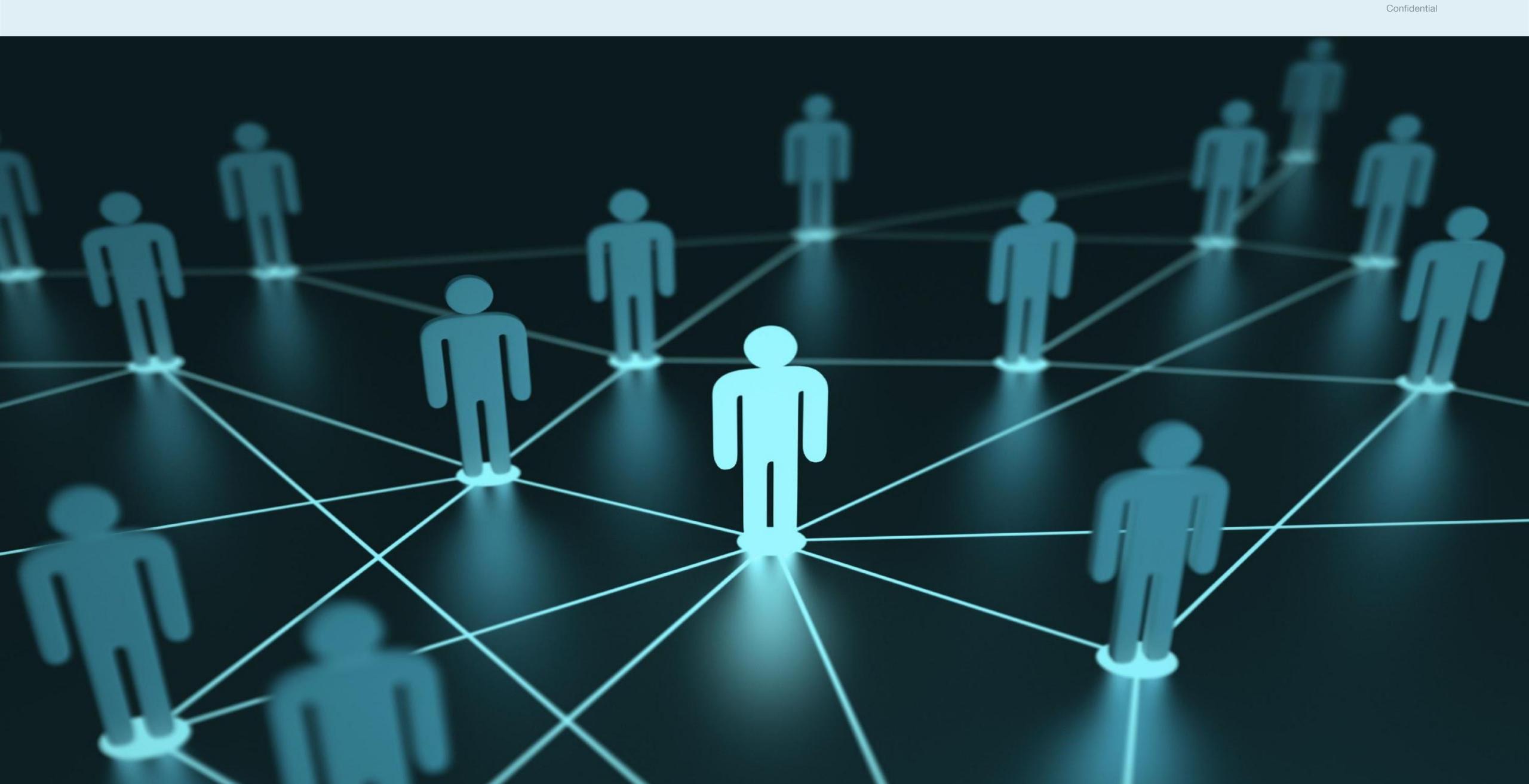


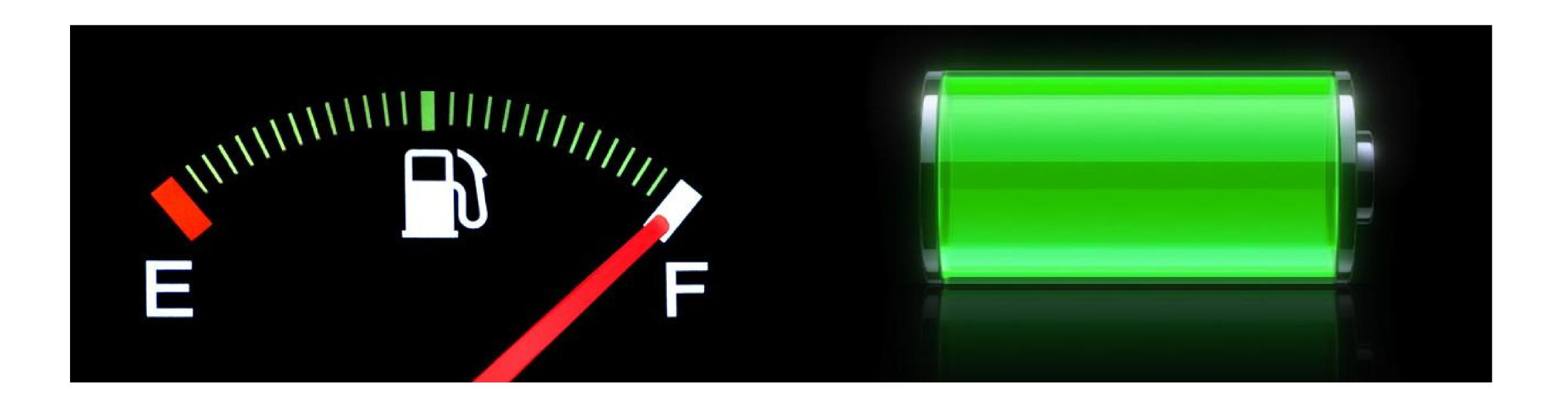
"Everything that can be invented, has been invented"

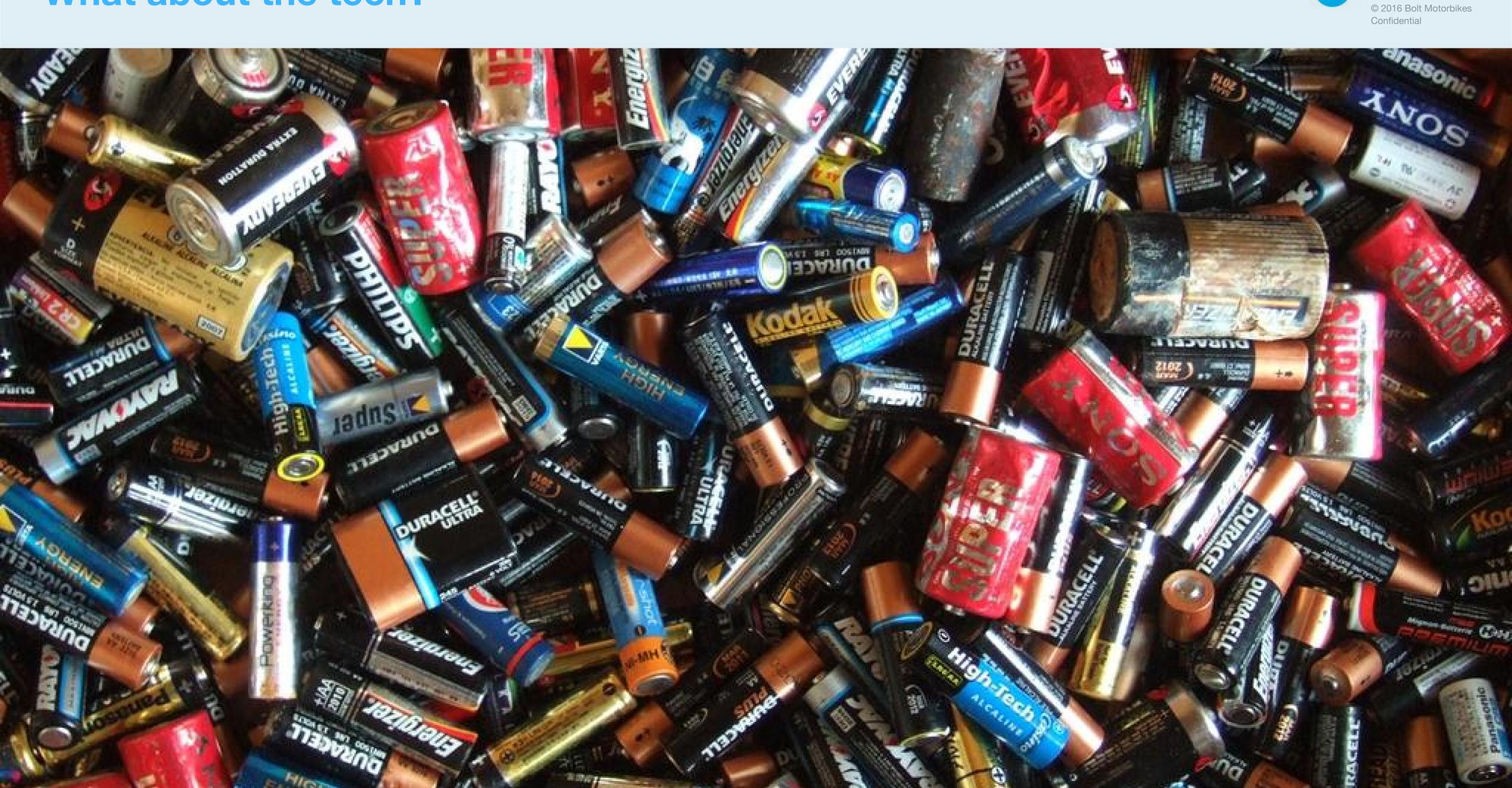
Charles Duell

Commissioner of USPTO (1899)



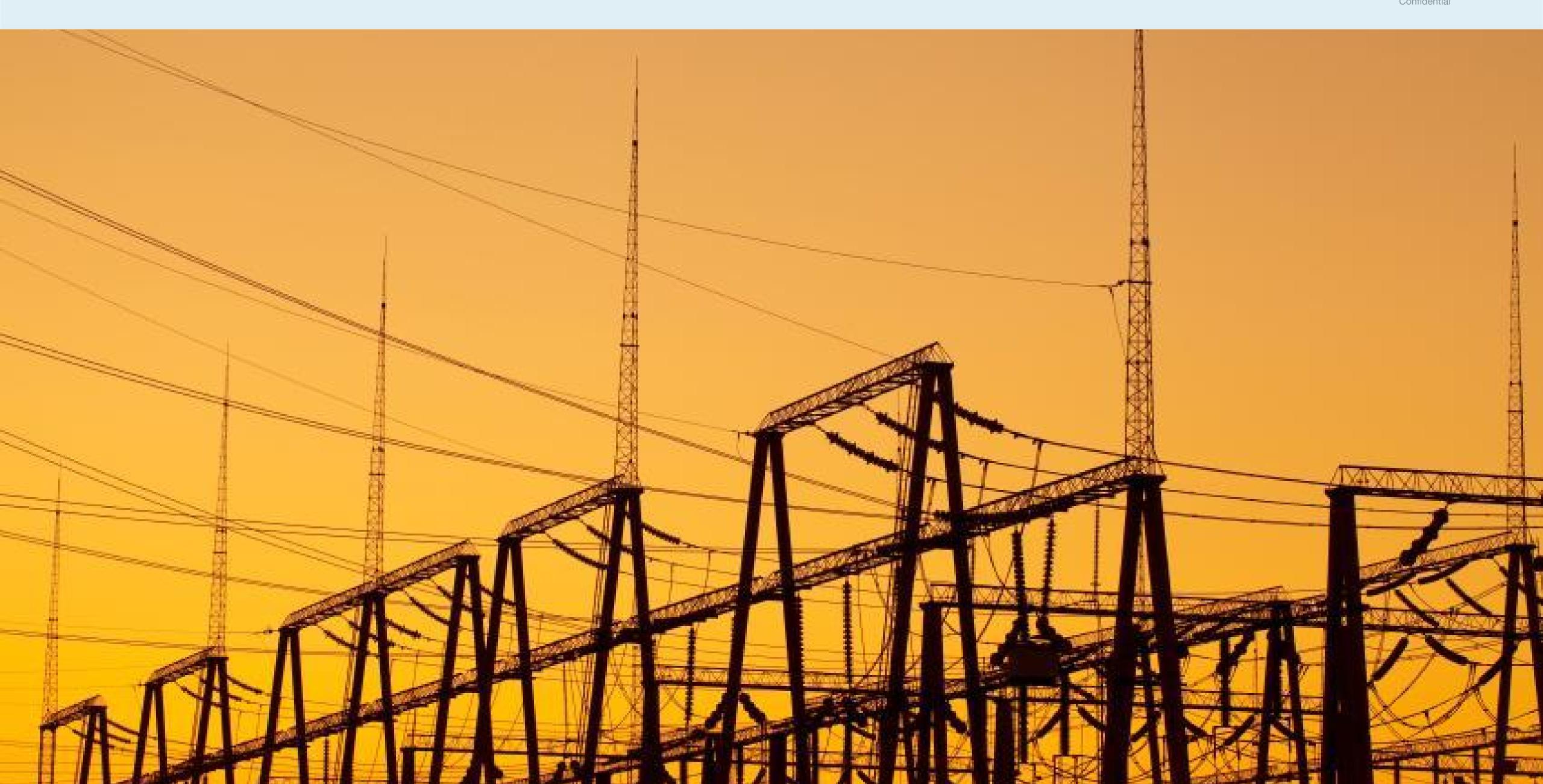






Confidential







Some cities have thoroughly embraced 2-wheelers

An ordinary day at an ordinary intersection in Taiwan



Benefits

Reduced congestion

Good in traffic

Easy to park

Cheaper than a car

Drawbacks

Pollution

Maintenance

License required

Population: 23 M Registered 2-wheelers: 15 M

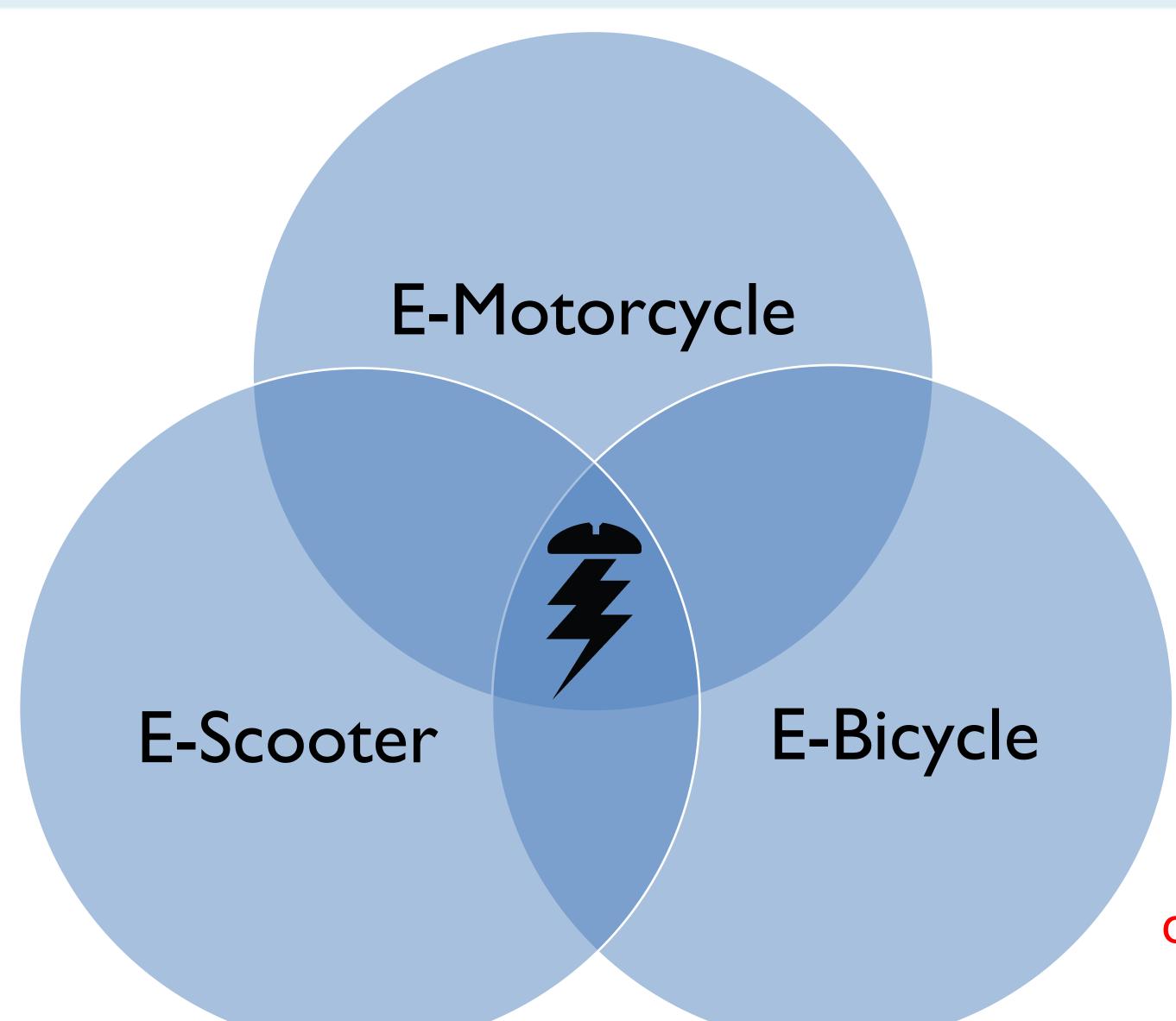
People want green but there's no solution yet











thrilling
affordable
easy to ride
approachable
no license req'd

dorky
heavy
intimidating
license req'd
cheaply made
or overly expensive

© 2016 Bolt Motorbike

Create uniquely-attractive, fully-electric motorbikes for urban transport that are simple to operate, fun to ride, and desirable to own.





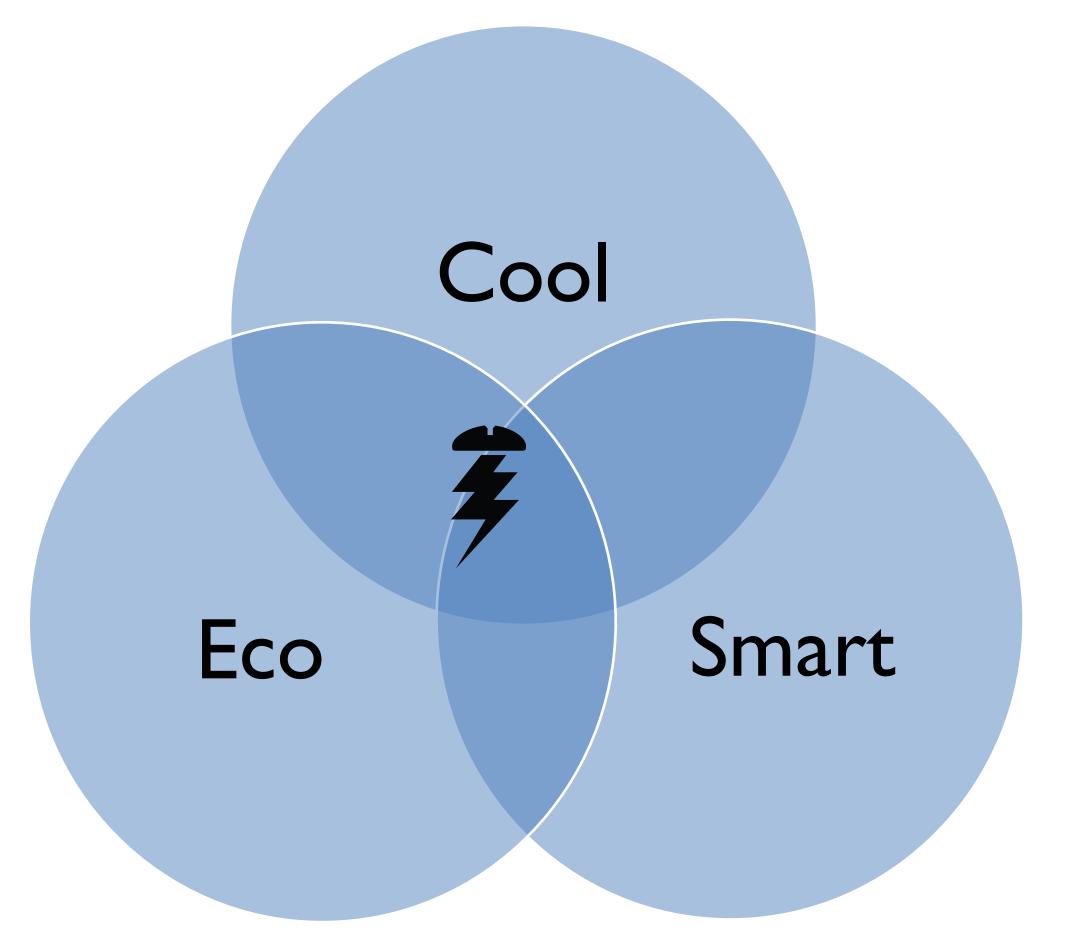
If Tesla and Honda had a love child with Apple...

© 2016 Bolt Motorbikes Confidential



M-1: The Ultimate Urban Transporter

part bicycle / part motorcycle all - electric

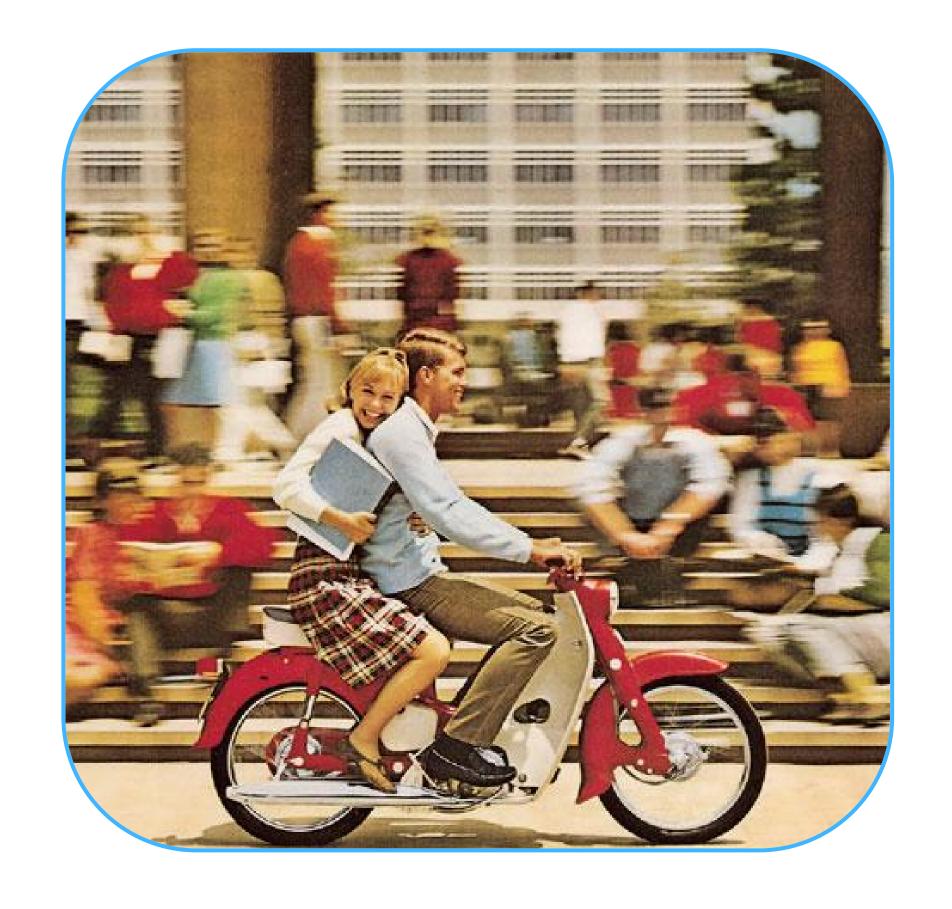


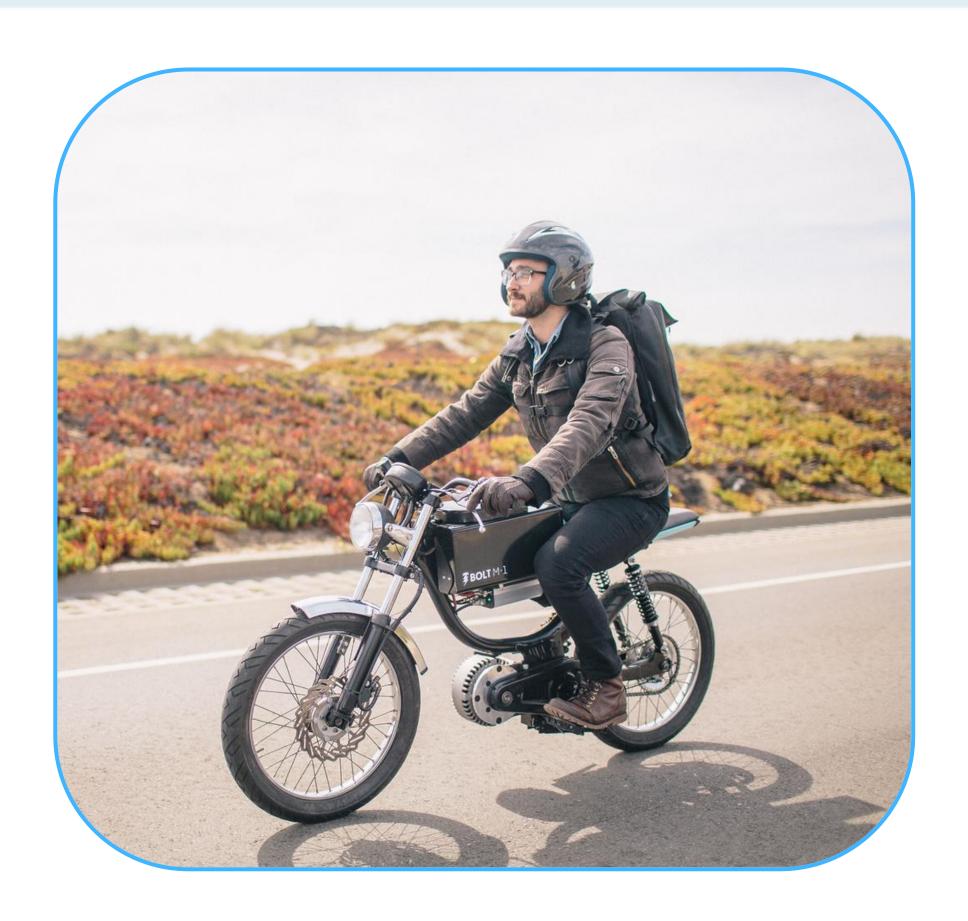




Honda Super Cub

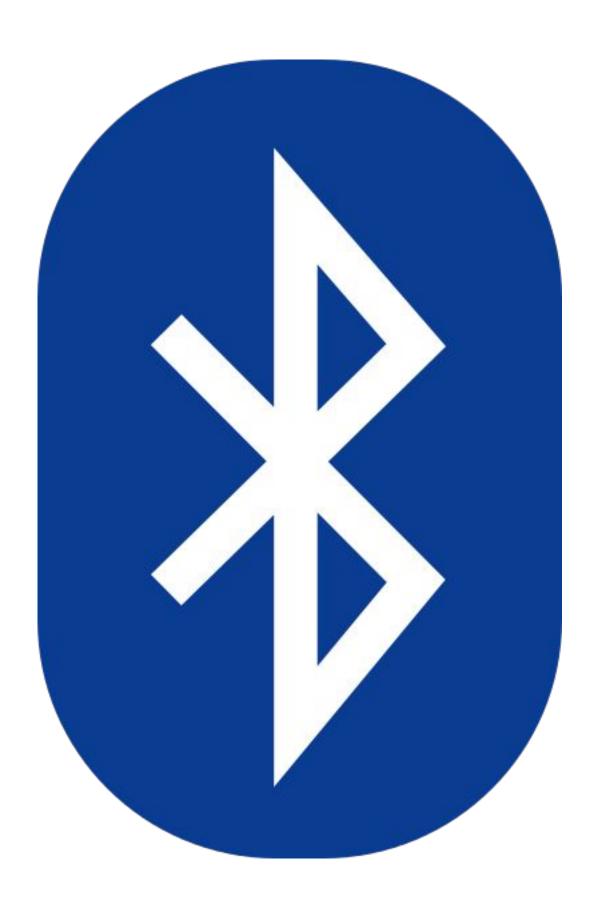
87 million units sold



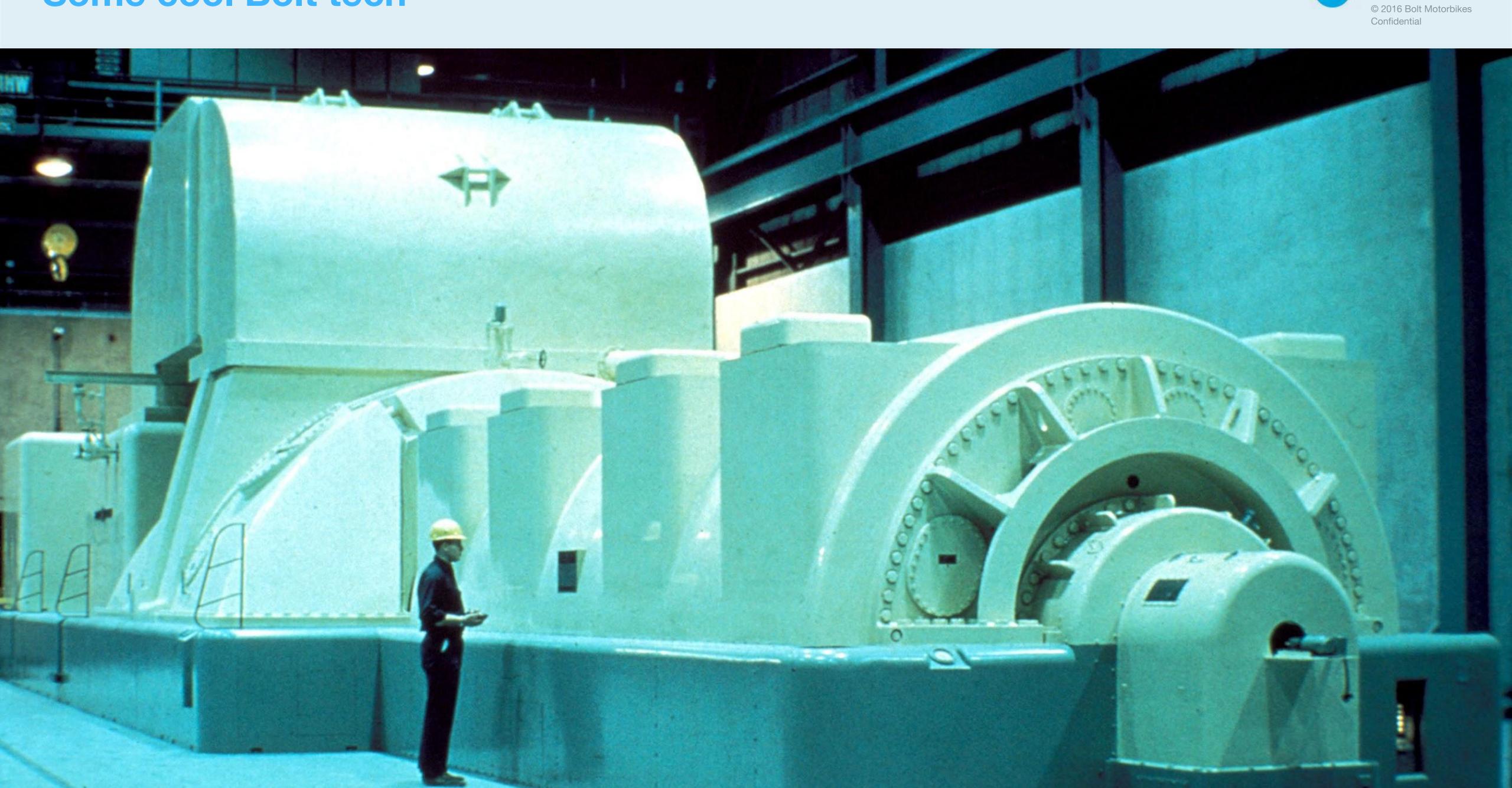


Bolt is

Smarter | Cleaner | Simpler









"Luck is where Opportunity meets Preparation"

Seneca

Roman Philosopher

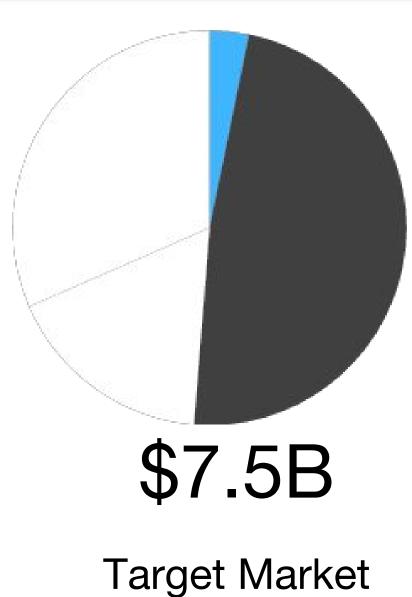
Success

"Luck is where Opportunity meets Preparation"

Bolt

Market Size: build US → expand globally







Bolt (2020)

Global

- Europe (\$10B): 1.2M powered 2-wheelers + 750K E-bikes sold (2013)
- S.E. Asia (\$55B): 11M powered 2-wheelers sold (2013)

Key Trends

- US E-bike growth forecast: 20% per year through 2018 (Source: 2012 Pike Research)
- Increasing electric vehicle ownership
- Renewable energy development

- Increasing urban density
- Connected devices
- Gas is expensive

Bolt Motorbikes merges passion with capability



50 years + 150,000 miles riding experience

electric motorcycle, scooter and wheelchair production

patented battery and drivetrain technology, more pending



Zach Levenberg, Co-Founder & CTO

Mechanical Engineering and Robotics









Ph.D. Mechanical Engineering, Cornell University









Bolt Motorbikes merges passion with capability



Over a decade in auto and technology sales experience

Internationally- recognized brand development



Noah Sherman, VP Consumer Care











Marla Fong, Communications Liaison





Bolt Motorbikes merges passion with capability



Robotics

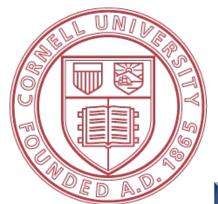
Renewable Energy Engineering

Photovoltiac Engineering

Mechanical Engineering



Nick Nieminen, New Guy



Cornell University



Bryan Curtin, Mechanical Engineer





	Brands	Attributes	Price Range
E- bicycle	Faraday, Kalkhoff, Stromer	Unhip, low power and low range, flimsy construction	\$3000 - \$7000
E- scooter	Stealth, Genze, Xkuty	Expensive, requires license, insurance, registration	\$4000 - \$12000
Gas scooter	Yamaha, Sym, Vespa	Requires gas, oil, maintenance, license, insurance, registration	\$3500 - \$6000
In a crowded market, Bolt stands out.		 Rugged construction built to handle city riding Unique style High-tech, low-maintenance No paperwork 	

First to market with most popular form factor in history

Fanatical focus on user experience

Bolt controls production

Convert raw materials to finished goods faster than anyone else

Integrated SW / HW solution

optimize customer experience

Ultra-low cost of ownership

- Saves users time and money
- Increases quality of life

Experienced team

- Volume production
- Science
- Riding
- Sales

Technology-driven ... not just an afterthought

- Mobile connectivity
- Patented battery and drivetrain tech

Product Roadmap

	2016	2017	2018	2019
New Models	M-1	M-1S	M-P	M-C
MSRP	\$5500	\$5500	\$6000	\$6000
Average Cost of Goods	\$4900	\$4000	\$3100	\$2200
Product Milestones	Beta test Production	Enhanced perf. High-volume mfg.	Introduce multi-platform motorbike	Introduce motorcycle class



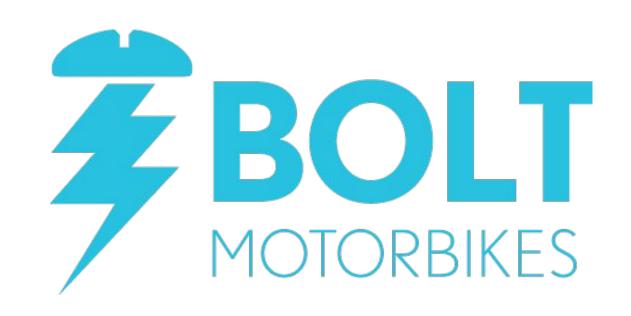
Rolls on two wheels

Is electric

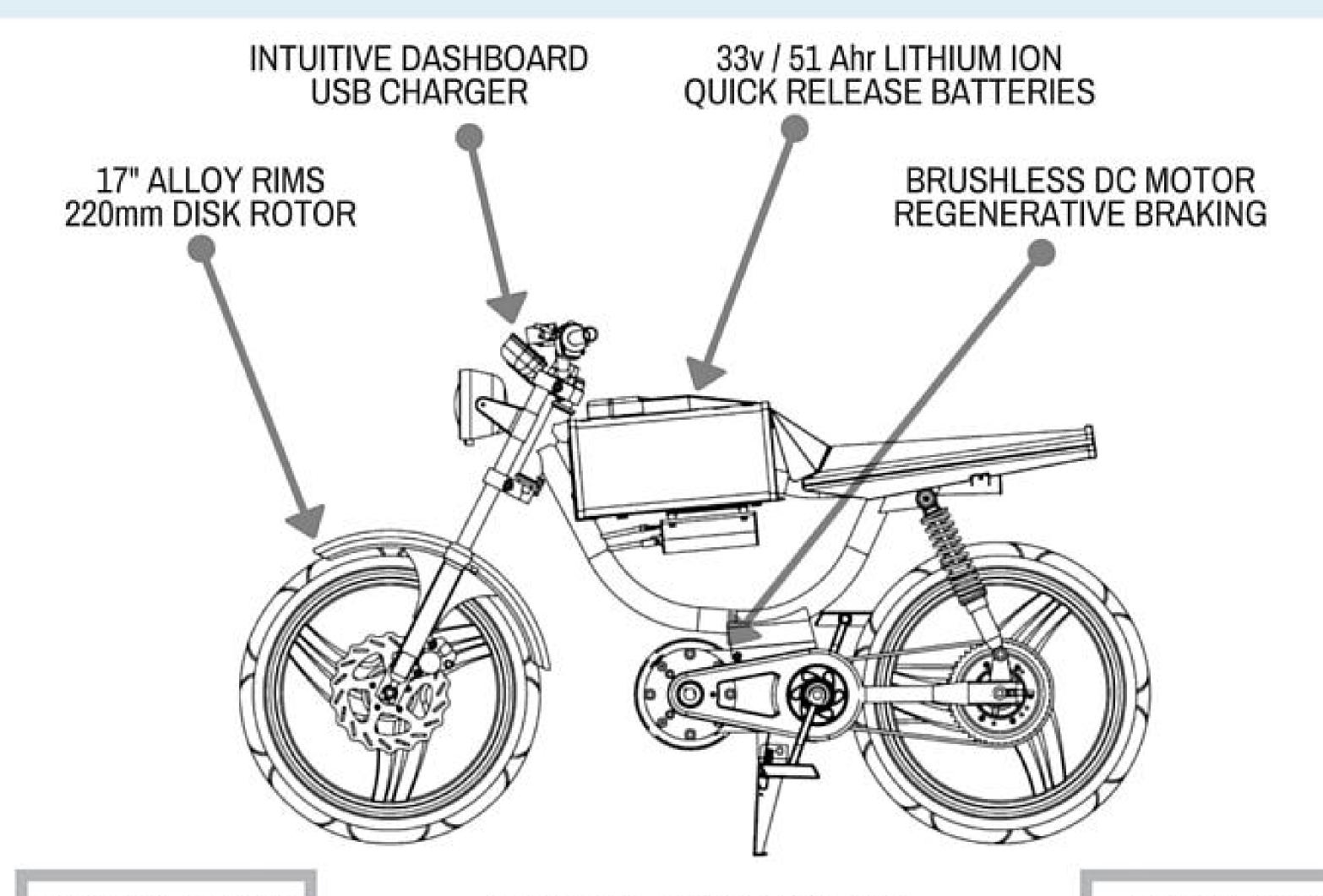
Is connected

Can be ridden by anyone

Thank You



Appendix



ECONOMY MODE 20 mph 1000 watts 50 mile range Mobile App - Bluetooth Enabled 5hr Smart Charge Keyless Entry and Security Ultra Low Maintenance

SPORT MODE 40 mph 5500 watts 30 mile range