Switching to cleaner fuels

Lessons from the ground!

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Let’s begin with a Small Quiz...

12 mn  Population of Belgium / Population of Bangalore

8 mn  Population of Switzerland / Daily Commuters in Bangalore

5 mn  Population of Finland / Daily Commuters in BMTC buses

2.5mn  Population of Qatar / Daily Commuters in Delhi Metro

Size Does Matter!
Unique Challenges of Incredible India

• Because of sheer scale, global Urban Sustainable Transport Models are to be customized to be replicable in Indian Cities.

• Each city has its own unique issues; transport being a state subject

• Can India afford to turn a blind eye to the issue?
WE OWE IT TO OUR

KIDS
How much scope do we have

Renewable Energy in Total Final Energy Consumption, by Sector, 2016

Heating and Cooling: 51%
- 9.8% Renewable energy
- 5.3% Non-renewable electricity
- 8.0% Modern bioenergy, solar thermal and geothermal heat
- 1.8% Renewable electricity

Transport: 32%
- 3.3% Renewable energy
- 0.8% Non-renewable electricity
- 3.0% Biofuels
- 0.3% Renewable electricity

Power: 17%
- 26% Renewable energy

Source: REN21.net
Namma Auto: A small effort in finding a Grass-roots solution

- Switching to Cleaner Fuels and Sustainable Transport:
  2 Stroke → 4 Stroke → Electric Vehicle → Mobility Integration

  (Energy Transition + Mobility Transition)

- A multi stakeholder intervention: Creating an Ecosystem:
  Academia - Policy – Auto Drivers – Customers – Social Enterprises – Financial Institutions – Government Bodies eg. RTO – Local politicians - Manufacturers/OEMs

- Focus on Behavior Change:
  At All Levels
Key Learnings

• **Policy is a necessary, but not a sufficient condition towards adoption of cleaner fuel choices**
  - Policy is subject to interpretation
  - One hand need not necessarily know what other hand is doing

• **‘Sustainable Transport’ is a higher order choice**
  - Average end customer is still struggling with basic issues of irregular and unreliable commute options
  - For average auto driver, easy access to even formal finance is still away.

• **Localize the solution to have sustainable impact**
  - Ecosystem development, catering to needs of different stakeholders, is therefore critical
The Future is Bright and Beautiful.
It just need some conscious choices in Present

**Arlanda Express, Sweden**: Runs on 100% green electricity which means electricity generated through renewable sources, such as hydropower, wind power or biofuels.