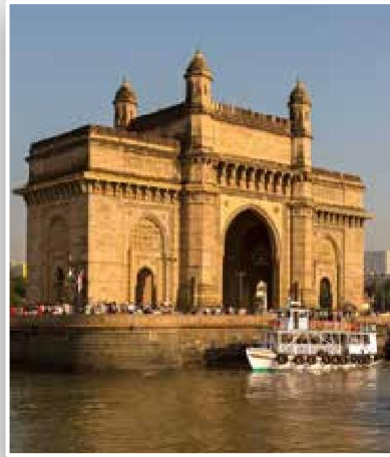




PUNE: CITY ON THE FRONTLINE

THE SECOND LARGEST CITY NEAR MUMBAI



GATEWAY OF INDIA



BKC



DALAL STREET

PUNE – A DIVERSE SOCIO ECONOMIC HUB



Auto-Mobile Sector:

- Government focus on development of Industrial Parks in and around Pune lead to spat of engineering & auto ancillary industries being set up in Pune. This sector currently employs over 550,000 people in Pune
- Pune Metropolis is now recognised as the "Detroit of India" due to the presence of several National & International automobile & auto ancillary units.



IT-ITES Sector:

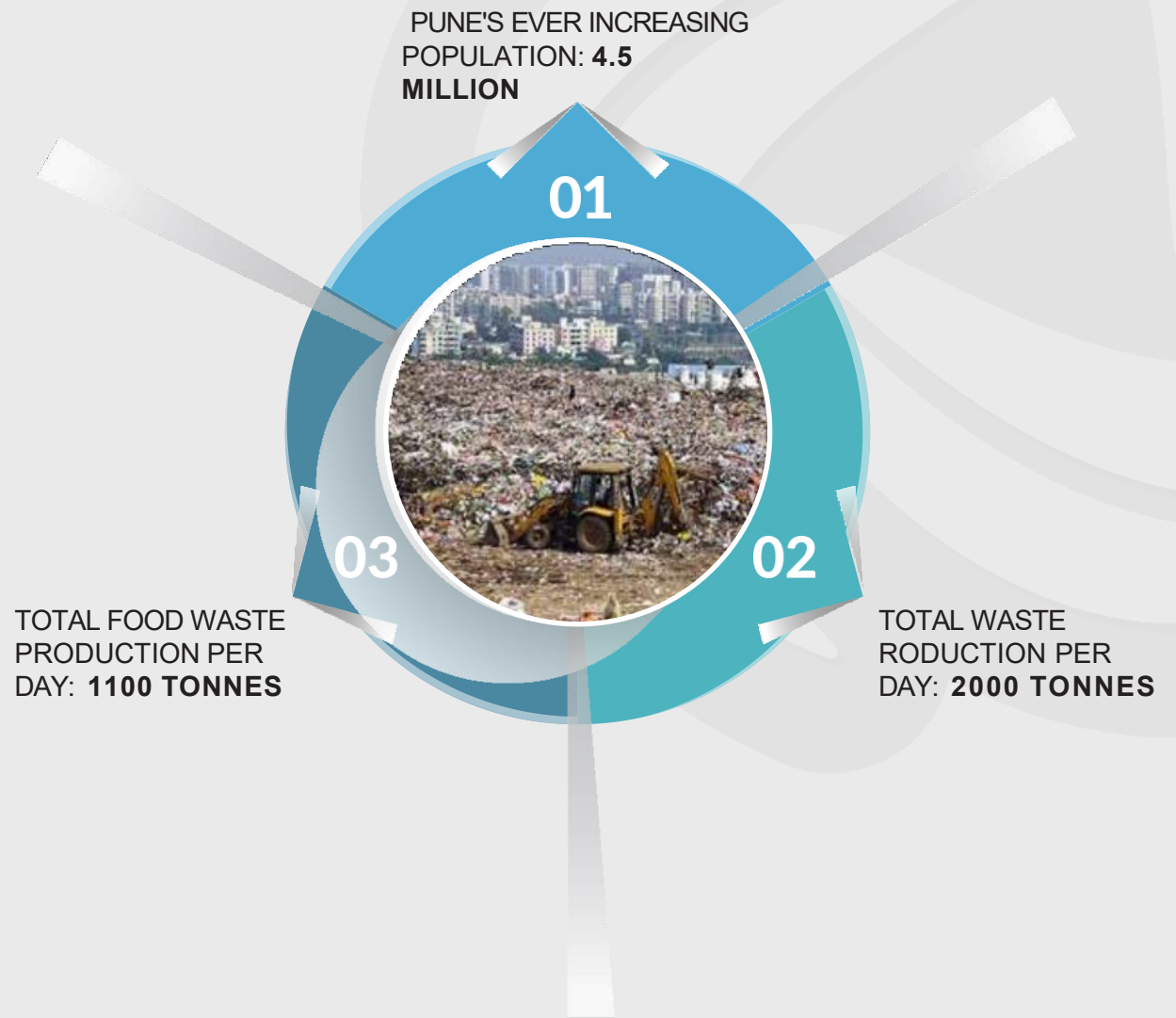
- The future drivers for growth of Pune is estimated to be the IT sector
- The Pune region is estimated to have close to 450,000 people working in the IT sector



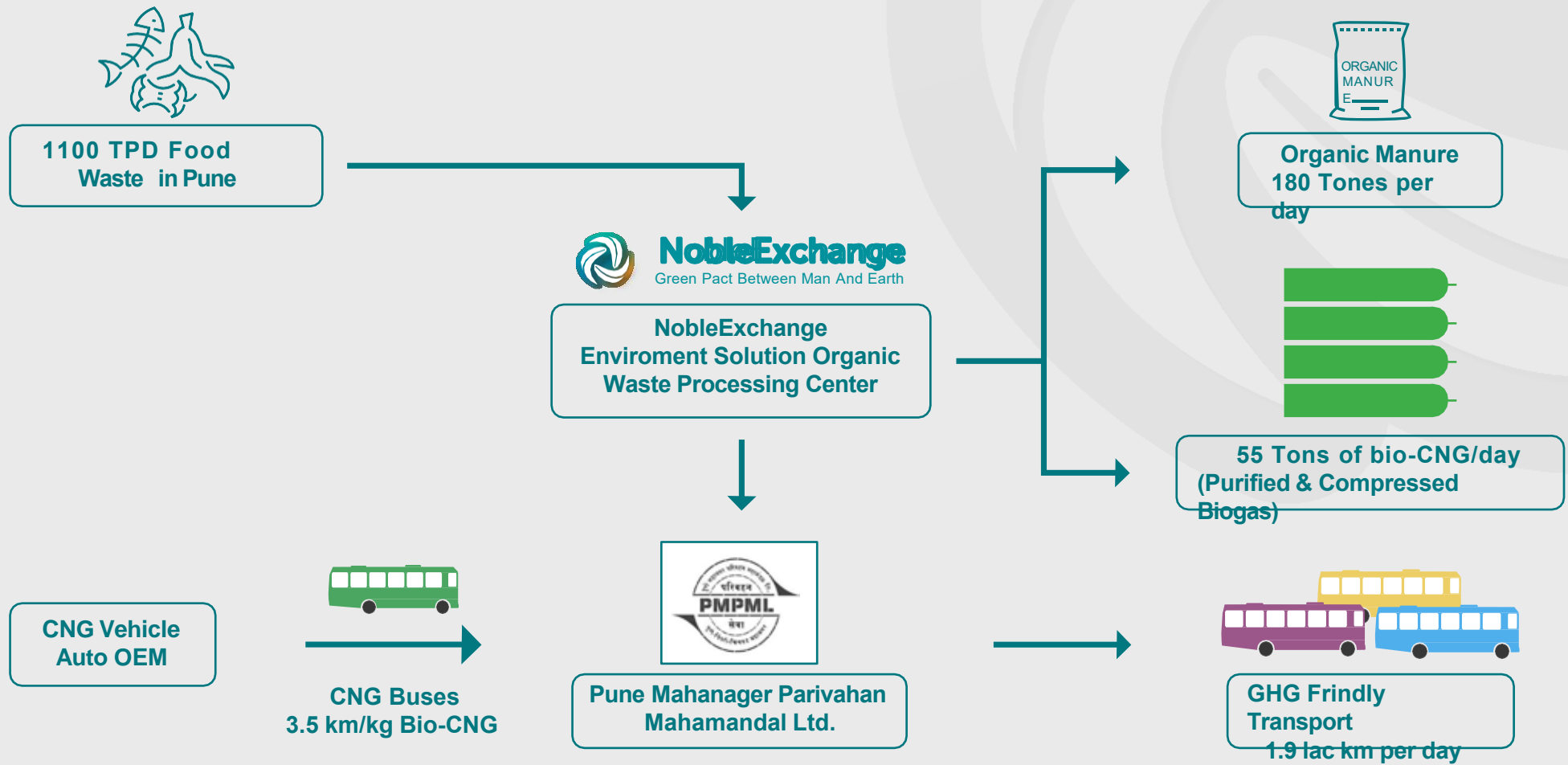
Educational Sector:

- Pune is known as "Oxford of East" based on the presence of the educational institutes in the city
- It is estimated that currently 265,000 students are enrolled in various Universities and Educational Institutes at Pune

WITH GROWTH COMES CHALLENGES

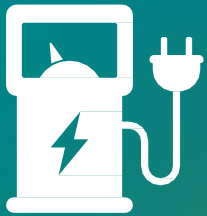


CITY WASTE TO CITY BUS MODEL



NEX TRIPLE IMPACT

1. Environmental



- Scientific treatment of organic waste and energy recovery.
- Climatic twin-effect: Reduces CO₂ emission by replacing fossil fuel and capturing uncontrolled methane and other greenhouse gas emissions.
- Total of 105000 tons of CO₂ emission reduction per year. This is equivalent to eliminating pollution from 50,000 passenger cars every day (As per statistics of year 2011, passenger car emits around 104 g of CO₂ per km.)
- Eliminate pollution of soil and ground water
- Production of renewable energy.
- Transformation of organic waste into high quality fertilizer.

NEX TRIPLE IMPACT

2. Social:



- Improvement of social health and sanitation standards.
- Generation of organized employment in a relatively unorganized sector.
- Ensures Extended Producer Responsibility (EPR).
- Surplus 1.8 lac liters of recycled clean water is generated every day after waste processing that can be used for farming & agricultural purposes. nitrogen (N), phosphorus (P) and potassium (K) - NPK rich; 25 tons of organic manure is generated every day, that can directly be used for agriculture purposes and replace conventional chemical fertilizers. This over the period of time improves the quality & quantity of the yield produced.

**NEx
TRIPLE
IMPACT
Economic:**



- A scientifically treated 350 TPD MSW facility will require 5 acres of land fixed for 20 years compared to untreated dumping landfill site that requires over 8.75 acres land (assuming 10 mtr heap of garbage) per year (175 acres landfill over 20 years) for the same 350 TPD waste, thus freeing up of land for other constructive use.
- The solution proposed by NobleExchange will transform waste liabilities into new profit centres as this ensures elimination of cost for pick-up, transportation and land fill site expenses for Municipal Corporation.
- It reduces dependence on energy imports as Compressed Biogas can be used to replace or substitute a wide range of fossil fuels including LPG, Natural Gas, Diesel and CNG for transport purpose.
- Ensure effective governance
- Benefits of Sustainable Triple-Impact.

EMPLOYMENT CREATION



**APPROXIMATELY 380 PEOPLE HAVE BEEN
EMPLOYED IN THIS INITIATIVE**

Nuriel Pezarkar

Founder & CEO

NobleExchange Environment
Solutions Pvt Ltd

nuriel@nobleexchangesolutions.com



NobleExchange

Green Pact Between Man And Earth