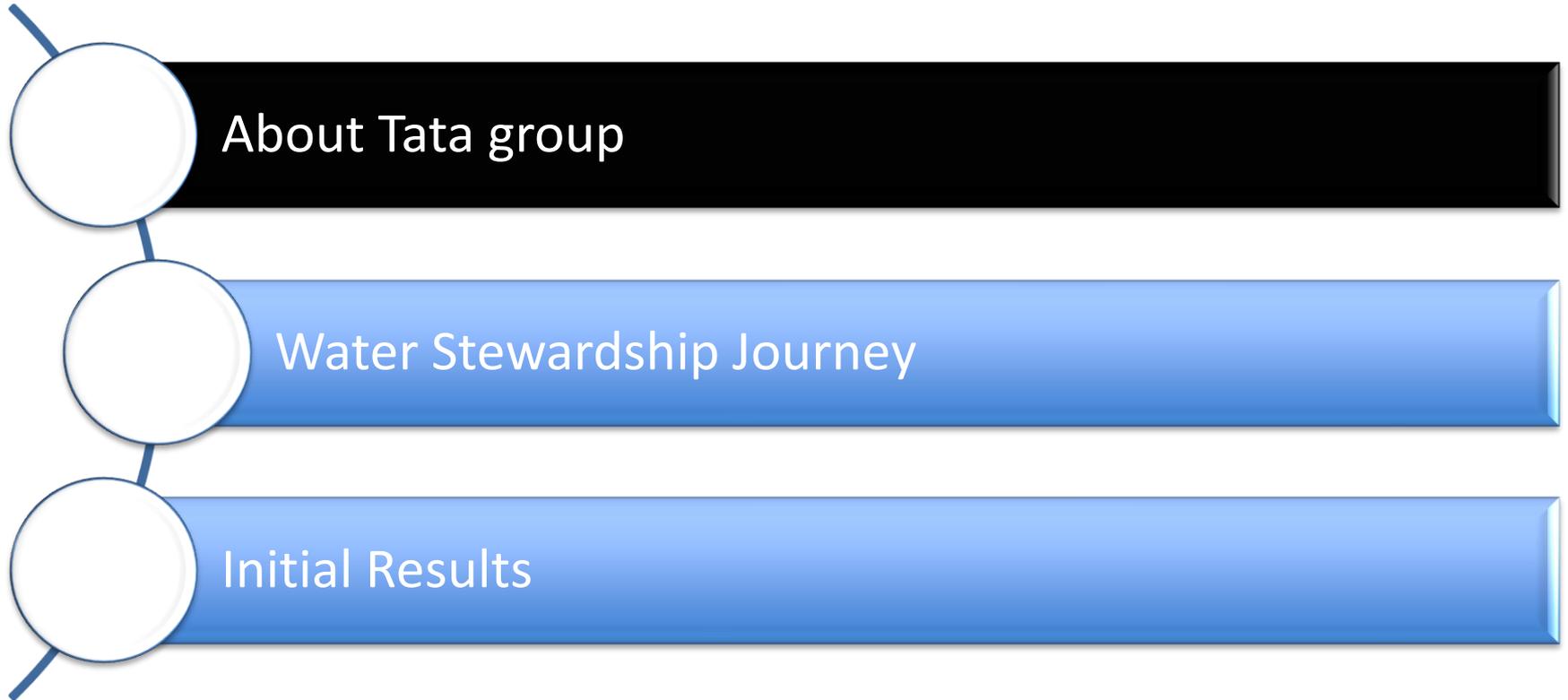


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# Tata's Water Stewardship journey

**Alka Upadhyay**  
**20<sup>th</sup> Aug'14**



# TATA Group – 146 years of leadership with TRUST

**600,000** global employees

**~100** billion US\$ revenues

**80** countries, **6** continents

**100+** Companies

**Diverse** sectors

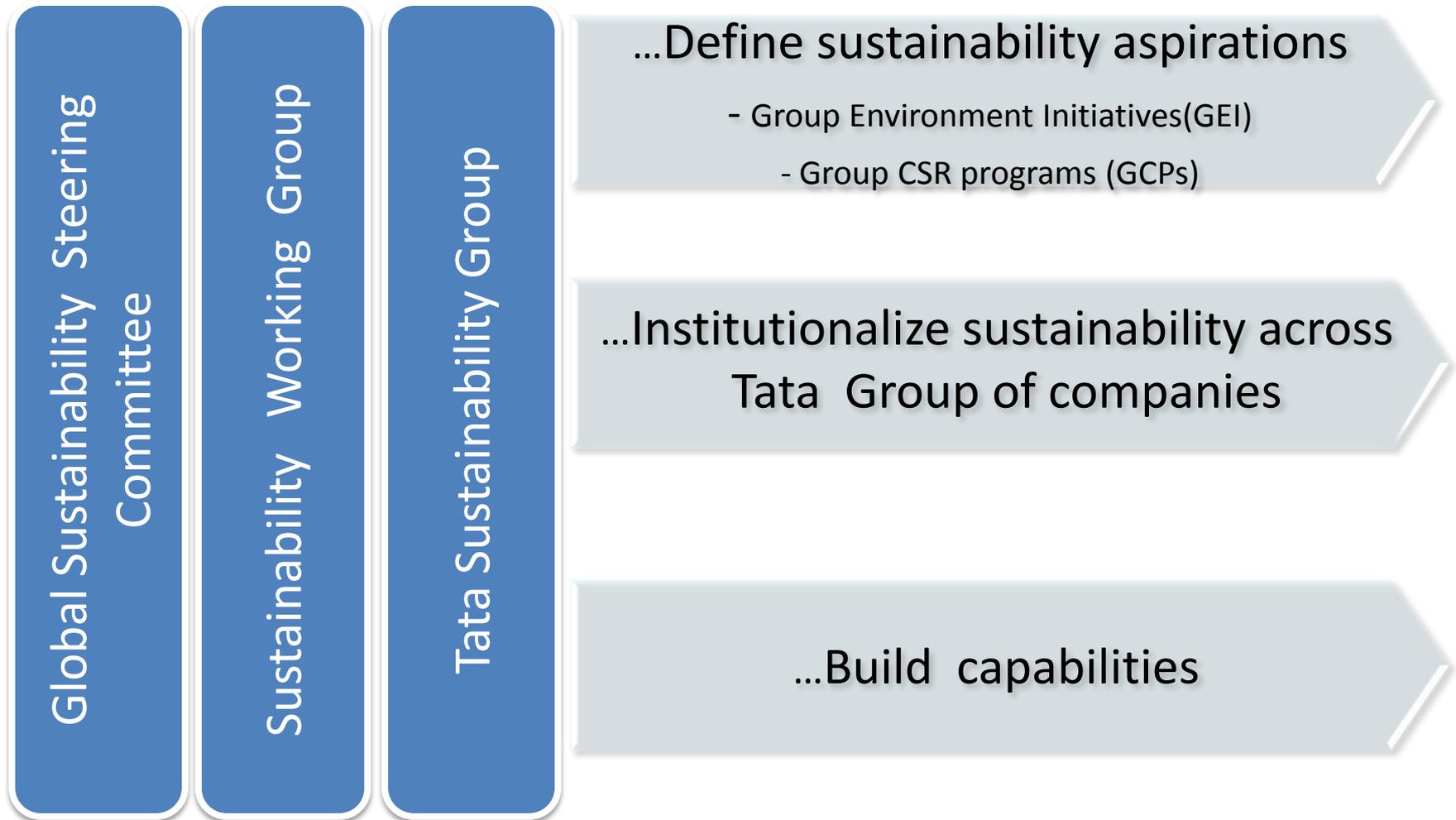
**Automotive** | **Software** | **Telecom** | **Steel** | **Hotels** | **Retail**  
**Jewellery** | **Watches** | **Power** | **Digital TV** | **Chemicals**  
**Beverages** | **Financial Services**

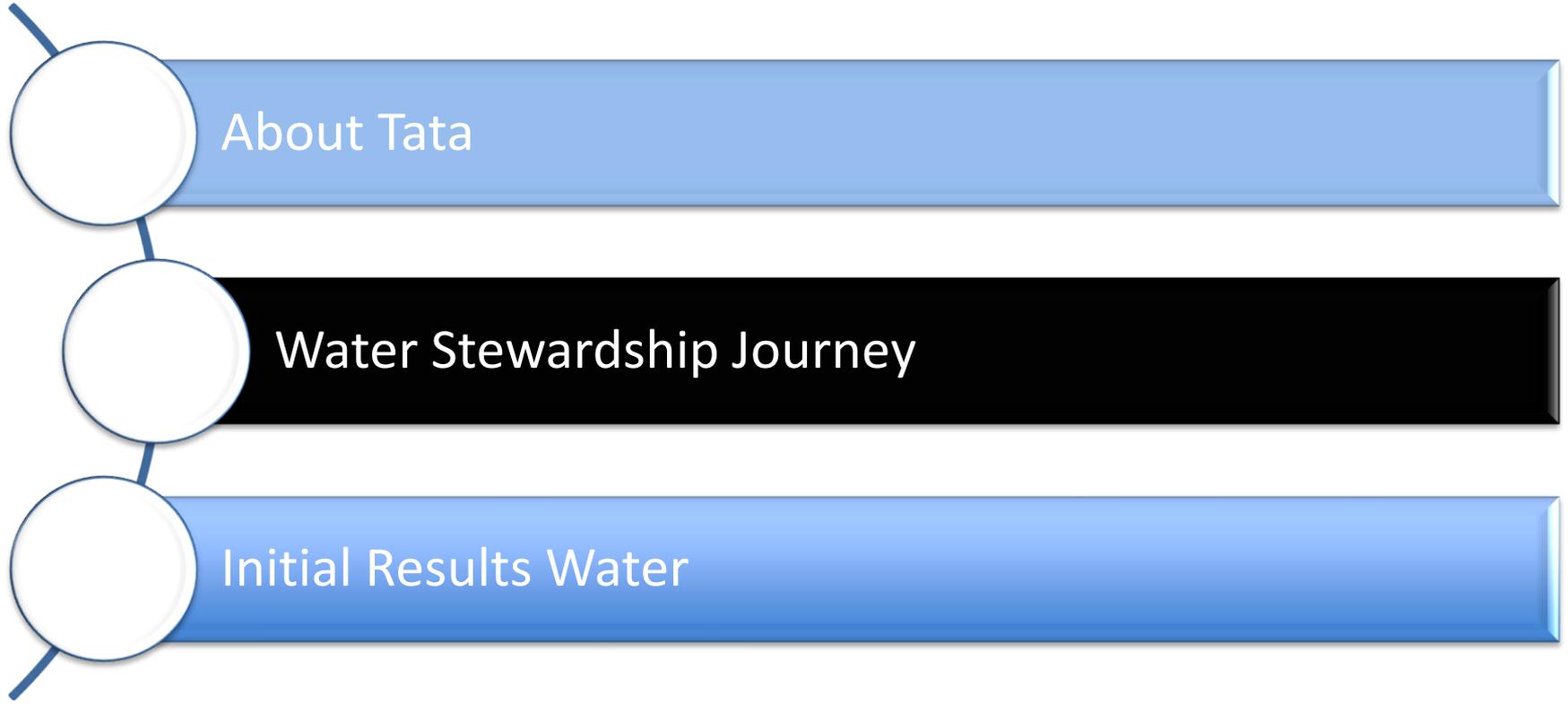
*“In a free enterprise, the community is not just another stakeholder in business, but is in fact the very purpose of its existence”*

**- Jamsetji N. Tata, Founder Tata Group**



# TATA Group – Sustainability Governance & Stance





# Focus on Environmental Sustainability

**2007**

- Tata Climate Change Policy
- Base-lining & low carbon strategy for Tata Companies
- 350 Champions
- Communication on Green Economy

**Carbon**



**Tata Water Champions**



**2012**

- Water
- Energy
- Carbon
- Waste



**Environmental Sustainability**

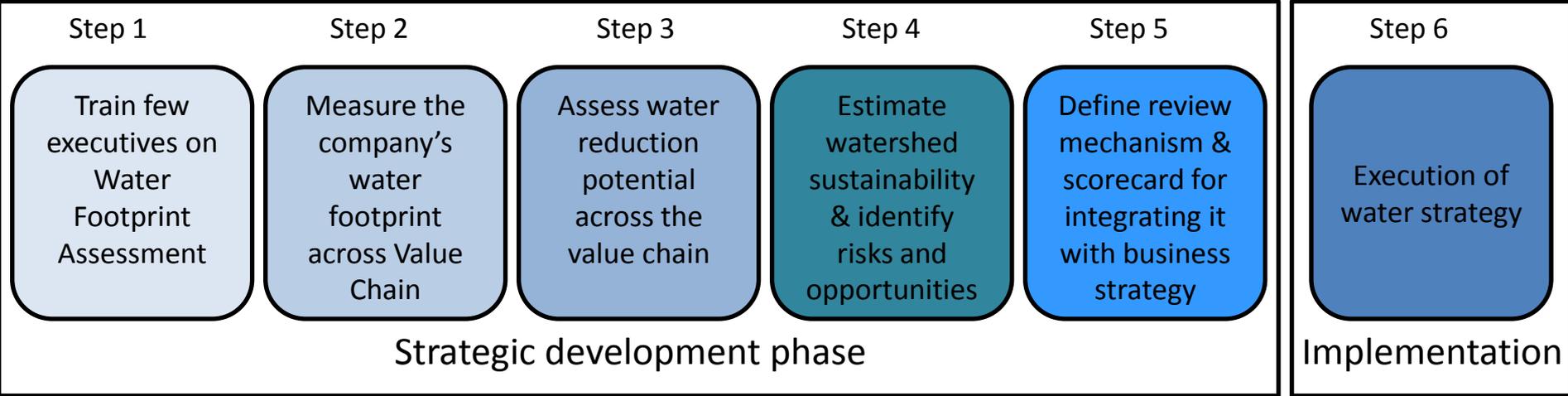
**Water Footprint Assessment**

- ✓ Water footprint Accounting
- ✓ Abatement Strategies
- ✓ Sustainability Assessment
- ✓ Watershed Management

# Approach to Water stewardship

Made up of 5+1 key stages:

- Strategic Phase driven by TSG with help of trained Water Champions
- Implementation done by Tata company





# Company 1

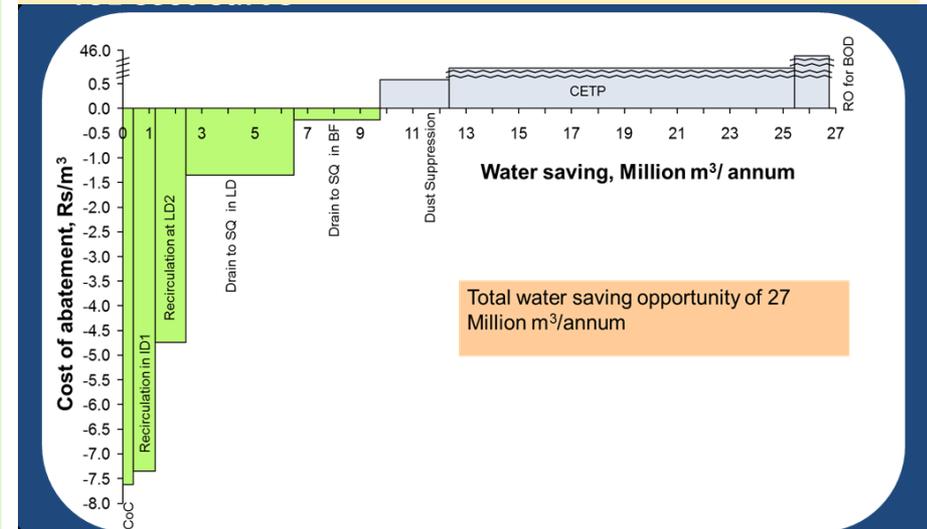
## Absolute Footprint, million m<sup>3</sup>/annum

Geography	Water Footprint
	Blue (Consumed)
Plant Works	25

- Company 1 major water withdrawal from local river basin

## Response Strategy

- Short term responses**– Metering , Recycling and Treating water for reuse
- Long term responses** like coke dry quenching ,once through to recirculation circuit
- Indirect Water reduction** : Dry crushing system , RWH at mines
- Security of water supply to steel works** : Increase of holding capacity of lower cooling pond by dredging
- Water availability at Watershed level** :
  - Rain water harvesting (RWH) in housing colonies & schools
  - RWH in rural areas like Patamda and to increase the water storage capacity of local reservoir



## Product Water Footprint(Direct+Indirect), m<sup>3</sup>/t of steel

Geography	Product Water Footprint
Company Works	4.21

Priority focus
Secondary focus
Other focus

# Varied response across sectors & geographies

	Tata Steel	Tata Motors	Tata Chemicals	Tata Power
Operational water footprint	<b>Dominant water user in watershed</b>	Low direct blue water footprint	Water-use efficient	Footprint highly dependent on fuel
Supply chain water footprint	Simple supply chain	<b>Indirect blue water footprint 85% of total</b>	Raw material and energy significant contributors	Variation across facilities on share of supplier water footprint
Sustainability Assessment	Sustainability of water use at risk due to new agricultural water canal	Need for water use efficiency due to competing claims across all stakeholders	<b>Participatory watershed management</b>	Risk to water availability due to Mumbai water requirements
Response Strategy Formulation	Investments for zero water discharge by 2013	Low-hanging fruits implemented; need for technology investments	Investments for zero discharge & promotion of sustainable practices by farmers	<b>Desalination plant</b>

# Initial results since inception (2012)...

- ✓ 7 major Tata companies spread over 14 geographies
- ✓ 140 water champions created
- ✓ 10-15 % water reduction seen in these companies in last one year.
- ✓ Employee engagement through structured campaigns





**Thank You**

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