

# Wind energy cluster



#### INSTALLATION OF WIND FARMS IN:

- Gravatá; Pombos; Vitória da Santo Antão and Macaparana (Gonvarri / Gestamp Spanish group);
- Fernando de Noronha (Folkecenter Danish Institute);
- Tacaratú (ENEL Italian group).



Blades for wind generators

Wind energy cluster



<b>Enterprise</b>	<b>Segment / products generated</b>
Parque Eólico Pau Ferro (Enel)	Wind Energy.
Parque Eólico de Tacaicó (Enel)	Wind Energy.
Parque Eólico Pedra de Gerônimo (Enel)	Wind Energy.
Wind Power Energia (Impsa)	Wind Energy.
RM Eólica (Gonvarri)	Wind Energy.
RM Eólica (Gonvarri / Iraeta)	Wind Energy (flanges).
Gestamp Eólica (Gonvarri / Iraeta)	Wind Energy (flanges).
Tecsis	Wind Energy (turbine blades).
Win&P / Impsa	Wind Energy (wind towers).
Usina Bio-energética Governador Miguel Arraes	Clean energy (by the etanol).
Impsa	Hidroelectric equipment.
Star Energy Participações (Grupo Bertin)	Thermoelectric.

Another investments in the energy area

<b>Enterprise</b>	<b>Segment / products generated</b>
<b>Parque Eólico Pau Ferro (Enel)</b>	<b>Wind Energy.</b>
<b>Parque Eólico de Tacaicó (Enel)</b>	<b>Wind Energy.</b>
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Another investments in the energy area

# Automotive cluster (anchor: FIAT Factory)





- **Location: Goiana.**
- **Investment: R\$ 4 billion.**
- **Production Capacity: 250 thousand vehicles per year.**
- **Area: 1400 hectares.**
- **Jobs generation: 4.5 thousand direct jobs (operating at full capacity).**

Automotive cluster (anchor: FIAT Factory)

# Automotive cluster (anchor: FIAT Factory)



<b>Enterprise</b>	<b>Investment (R\$)</b>	<b>Jobs</b>	<b>Segment / products generated</b>
<b>Hemobrás</b>	<b>670.000.000</b>	<b>3.080</b>	<b>Blood products</b>
<b>Multilab</b>	<b>200.000.000</b>	<b>1.000</b>	<b>Generic and similar drugs</b>
<b>Riff Laboratórios Farmacêuticos</b>	<b>83.800.000</b>	<b>228</b>	<b>Soros.</b>
<b>Vitaderm Hipoalergênica</b>	<b>28.000.000</b>	<b>350</b>	<b>Cosmetics</b>
<b>AC Diagnósticos</b>	<b>13.500.000</b>	<b>270</b>	<b>Diagnostic kits (immunology and hemagglutination)</b>
<b>IonQuímica</b>	<b>18.000.000</b>	<b>25</b>	<b>Supplies for the pharmaceutical industry.</b>
<b>Lafepe Química (1)</b>	<b>40.000.000</b>	<b>150</b>	<b>Inputs to the antiretroviral drugs, and antipsychotic drugs for neglected diseases.</b>
<b>Hair Fly</b>	<b>20.000.000</b>	<b>180</b>	<b>Cosmetics for hair and body.</b>
<b>Imbesa - Rishon</b>	<b>6.000.000</b>	<b>105</b>	<b>Cosmetics for hair and body.</b>
<b>Multisaúde Farmacêutica</b>	<b>4.300.000</b>	<b>43</b>	<b>Medicines (syrup Forteviron)</b>

## Pharmacology cluster



<b>Enterprise</b>	<b>Investment (R\$)</b>	<b>Jobs</b>	<b>Segment / products generated</b>
<b>Hemobrás</b>	<b>670.000.000</b>	<b>3.080</b>	<b>Blood products</b>
<b>Multilab</b>	<b>200.000.000</b>	<b>1.000</b>	<b>Generic and similar drugs</b>
<b>Riff Laboratórios Farmacêuticos</b>	<b>83.800.000</b>	<b>228</b>	<b>Soros.</b>
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## Pharmacology cluster



## North Coast Port - Less environmental impact alternative





- **Estimated investment: R\$ 3 billion.**
- **Localization: Near Goiana, distant 63 km from Recife.**



## North Coast Port - Less environmental impact alternative



## North Coast Port - Less environmental impact alternative





# North Coast Port



- **The new port will be complementary to Suape.**
- **An alternative to the port of Suape, which now presents a lack of space for certain projects.**
- **Will meet the demand from companies interested in settling in Pernambuco, actually very high.**
- **It is expected that this port will lead to further development of the northern region, promoting an equal and balanced development among the two regions (north and south coasts).**



# Public Private Partnerships (PPP)

### PAIVA BEACH ROAD SYSTEM

- **Purpose:** exploit the Paiva Beach access bridge and road system, preceded by works and services.
- **Modality:** sponsored concession.
- **Term:** 33 years.
- **Cost:** R\$ 177 million.



### ITAQUITINGA INTEGRATED RESOCIALIZATION CENTRE

- **Purpose:** exploit the Itaquitinga Integrated Resocialization Centre, preceded by works.
- **Modality:** Administrative concession.
- **Term:** 33 years.
- **Cost:** R\$ 2.29 billion.
- **Capacity:** 3,126 inmates.





# Public Private Partnerships (PPP)

## 2014 WORLD CUP MULTIPURPOSE ARENA

- **Purpose:** exploit the 2014 World Cup Multipurpose Arena, preceded by works.
- **Modality:** Administrative concession.
- **Term:** 33 years.
- **Cost:** R\$ 430 million.



## SANITATION AND WATER RESOURCES

- **Purpose:** Recife Metropolitan Region sewerage system expansion.
- **Investment:** over R\$ 3.5 billion.
- **Term:** 12 years for the works.
- **Financial compensation** in order not to increase fee charged.







- **Link between Itapissuma and Suape, bypassing Recife.**
- **Importance: Will integrate northern areas or Recife Metropolitan Region to Suape Port and Industrial Complex, alleviating traffic congestion and enhancing urban mobility.**
- **Investment: R\$ 1.8 billion.**

## Infrastructure Arco Metropolitano (Metropolitan Arch)



# Infraestrutura Transnordestina Railway







**Railway linking the Brazilian “cerrados”  
to Pecém (Ceará) and Suape ports.**

- **Increases Pernambuco’s economic competitiveness.**
- **Strengthening Suape as a Hub Port.**

## Infrastructure Transnordestina Railway



# Infrastructure Transposition of the São Francisco River





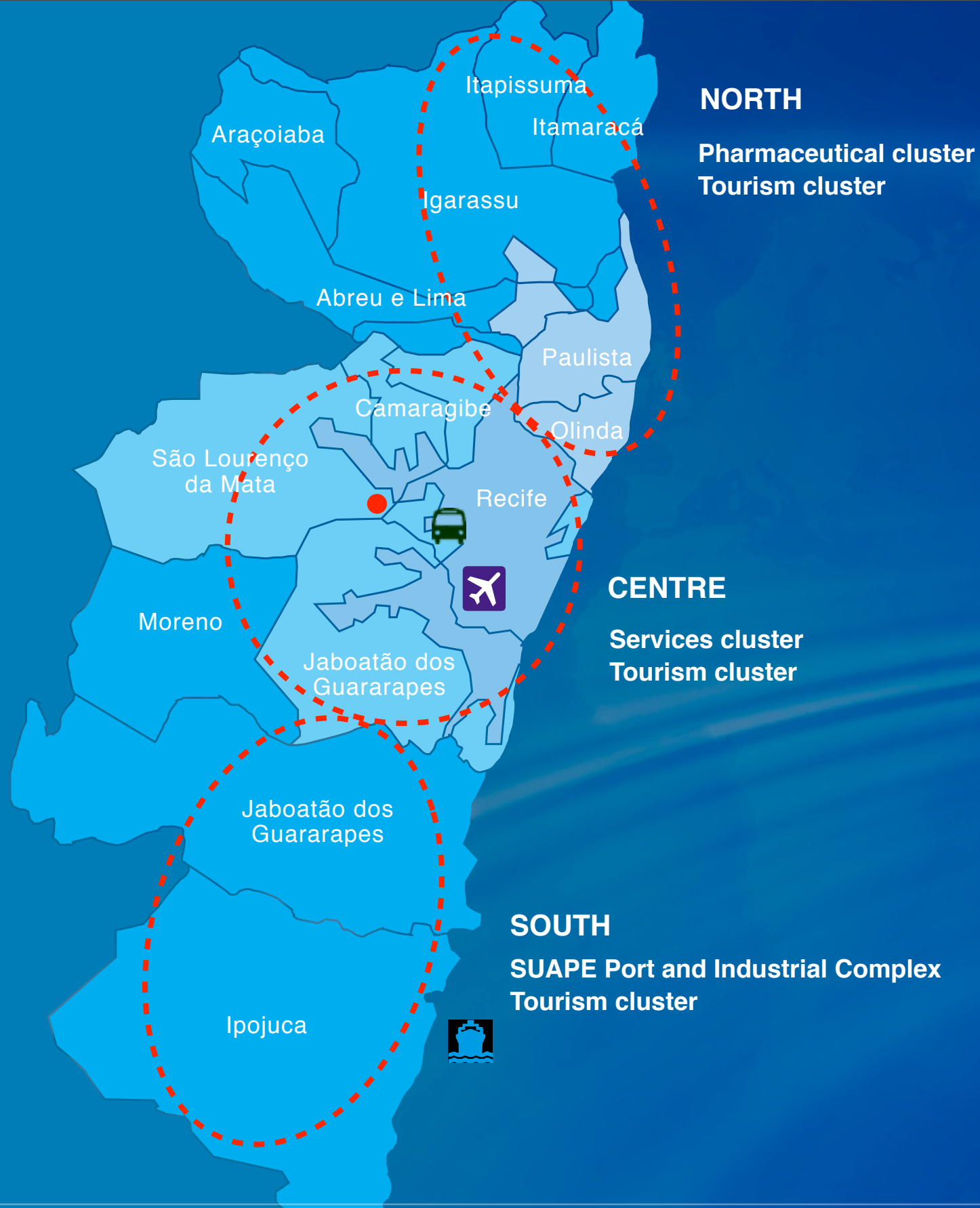


700 km of canals  
and over 1000  
km of reservoirs,  
rivers and dams.

## Infrastructure Transposition of the São Francisco River

# Infrastructure World Cup City





**METROPOLITAN SCALE**

- Conurbation (Recife, Olinda, Paulista, Jaboatão, Camaragibe).
- Cidade da Copa / World Cup City in São Lourenço, Recife Metropolitan Region's geographical centre.

-  Recife Port - 19Km
-  Airport - 19Km
-  Passengers Hub Terminal - 2Km

Infrastructure World Cup City

Enterprise	Investment capital	Investment (R\$)	Segment / products generated
Impsa	Argentina	230.000.000	Equipment for hydro.
Wind Power Energia	Argentina	265.755.000	Wind Energy (expansion).
Companhia Siderúrgica	Brazil / Italy	1.800.000.000	Steel rolling mill.
Refinaria Abreu e Lima	Brazil / South Korea	23.563.610.000	Diesel, coke, coke gas oil, LPG.
Estaleiro Atlântico Sul	Brazil / South Korea	1.800.000.000	Shipbuilding and ship repair and offshore.
Estaleiro PROMAR	Brazil / South Korea	300.000.000	Ships and naval projects.
Shineray	China	40.000.000	Assembly of motorcycles.
XCMG	China	21.260.400	Mounting of heavy machinery
Wartsila Brasil	Finland	6.000.000	Center services (naval and energy areas)
Lanxess (extension)	Germany	14.500.000	polybutadiene rubber
Win&P / Impsa	South Korea	42.520.800	Wind towers.
Estaleiro Galíctio	Spain	779.548.000	Construction and repair of vessels.
Gestamp Eólica	Spain	170.000.000	Flanges
RM Eólica (Gonvarri/Iraeta)	Spain	49.500.000	Flanges
PG&A Empreendimentos	Spain	80.000.000	Cement.
RM Eólica (Gonvarri)	Spain	26.575.500	Line cutting of steel plates.
Fiat	Italy	4.000.000.000	Cars.
Estaleiro Navalmare	Italy	250.000.000	Offshore structures.
Parque Eólico Pau Ferro	Italy	145.200.000	Wind Energy
Parque Eólico Pedra de	Italy	139.900.000	Wind Energy
Parque Eólico de Tacaicó	Italy	89.700.000	Wind Energy
Estaleiro CMO	USA	720.000.000	Modules for offshore platforms.
Usina Bio-energética Gov	USA	200.000.000	Clean energy (by the etanol).

Examples of productive investments with participation of foreign capital



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Examples of productive investments with participation of foreign capital

# Manegement Program with Goals and Results



- **Management with the logic of private enterprise.**
- **Management committee / Core management.**
- **Regular meetings.**
- **Collection of deadlines, goals and results.**
- **State without bureaucracy.**
- **Equilibrium between revenue and expenses.**

## Management Program with Goals and Results

# Current and future scenarios



- **Improvement in management of public resources.**
- **Increase the supply of long-term financing.**
- **Increase in investments.**
- **Partnerships with the federal government and the private sector to expand the capacity of infrastructure investments.**
- **High ability to expand partnerships with the World Bank and BNDES.**
- **High debt capacity of the state.**







Secretaria  
do Governo

**PERNAMBUCO**  
GOVERNO DO ESTADO