Economic Overview of

RIO DE JANEIRO

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Population

16.3 M

> Bigger than Portugal, Greece and Switzerland

Total Area

43,780 km²

> Switzerland, Netherlands, Denmark

GDP

US$ 237 B

> 11% of Brazil's GDP, GDP per capita US$ 14.449

SOUTHEST REGION OF BRAZIL

55% of national GDP
42% of national Consumer Market

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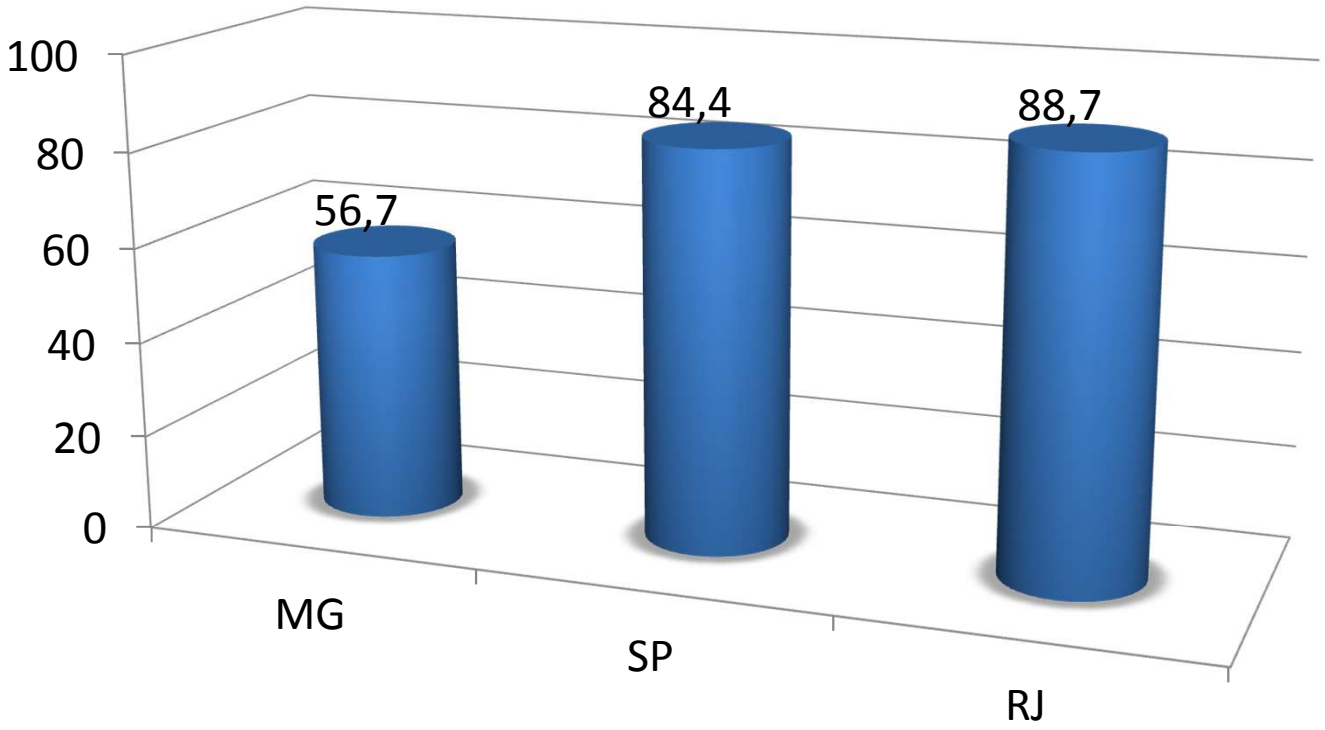
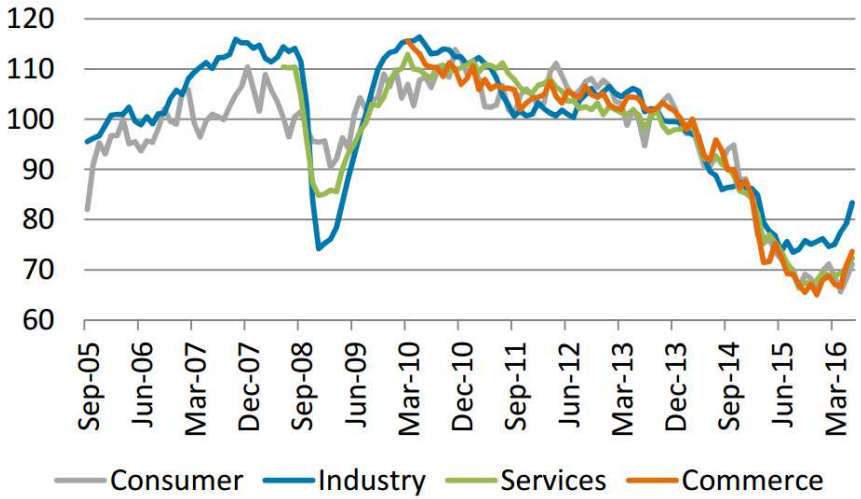
Compared Announced FDI (2010-2015) US$ Bi

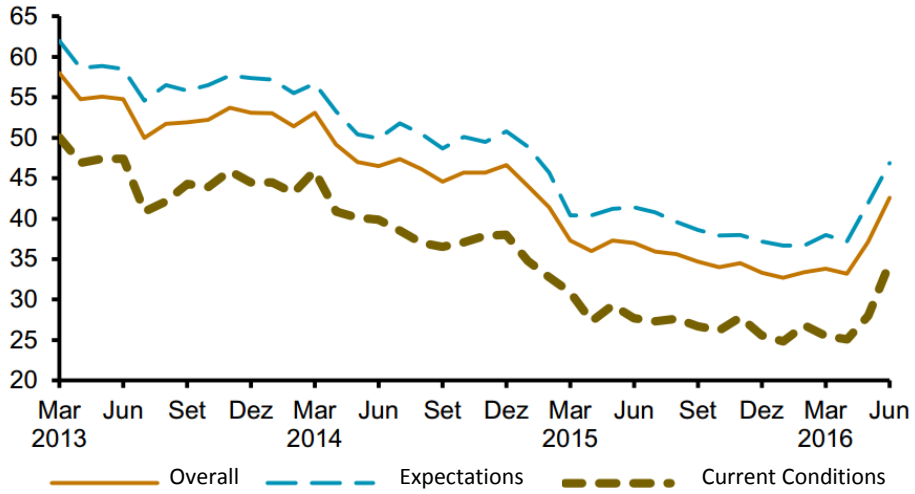


Source: RENAI/MDIC

Confidence Index - Brazil



Confidence Index- Industry Sector Rio de Janeiro



Source: Bulletin of Central Bank of Brazil, July 2016

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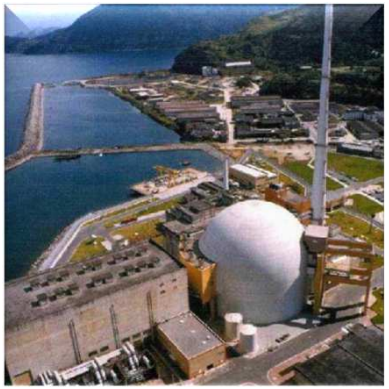
CONNECTIVITY

3h
Buenos Aires
Asunción
Montevideu

4h
La Paz
Santiago

ENERGY CAPITAL OF BRAZIL



- **Oil production**
  1.6 million barrels / day (**67,1% of the national production**)

- **Gas production**
  11,1 million m^3/ day (**40% of the national production**)

- **Self sufficient in eletricity**
  Installed capacity: 8,443 MW
  Simplicio Hidroelectric Power Plant 305,7 MW
  132 thermoelectric plants: 5.162 MW
  2 nuclear plants: Angra I (640 MW) and Angra II (1,350 MW)

- ***Under construction***
  Açu Coal Fired Power Plant: 2,100 MW + 3,300 MW (Natural Gas)
  Angra III Nuclear Power Plant: 1,405 MW

Source: ANP

"Pré-Sal"

August, 2016:

- 1,099 barrels of oil per day (bbl/d)
- 42.2 million m³/d of natural gas
- 65 wells

Source: Ministry of Mines and Energy

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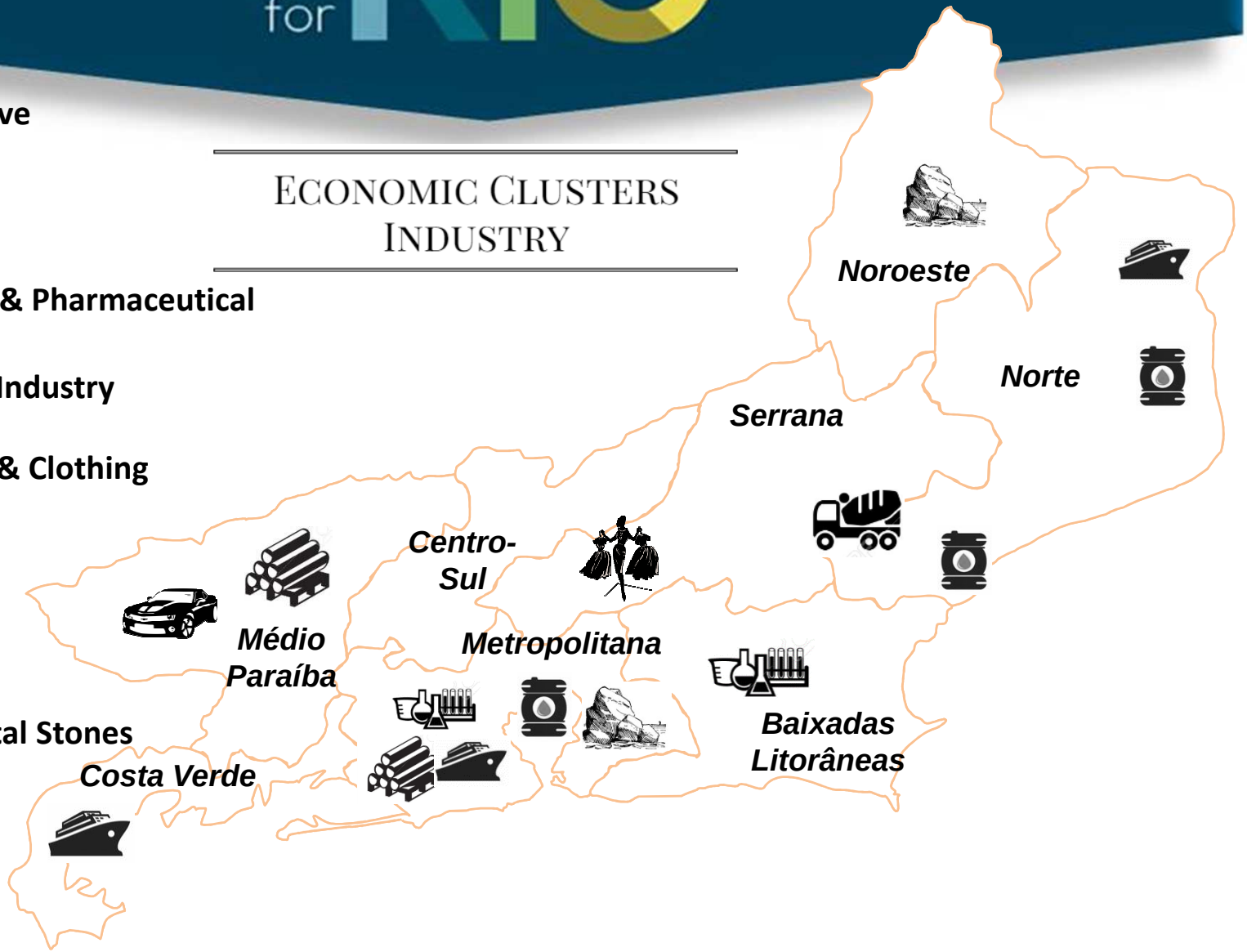
Economic Clusters Industry

- Automotive
- Steel
- Chemical & Pharmaceutical
- Shipping Industry
- Garment & Clothing
- Cement
- Oil & Gas
- Ornamental Stones



Source: SEDEIS (2014)

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Economic Clusters
Services

- Tourism
- Insurance & Reinsurance
- Audiovisual
- Telemarketing
- Telecommunication

Source: SEDEIS (2014)

Human Resourses

HUMAN RESOURCES

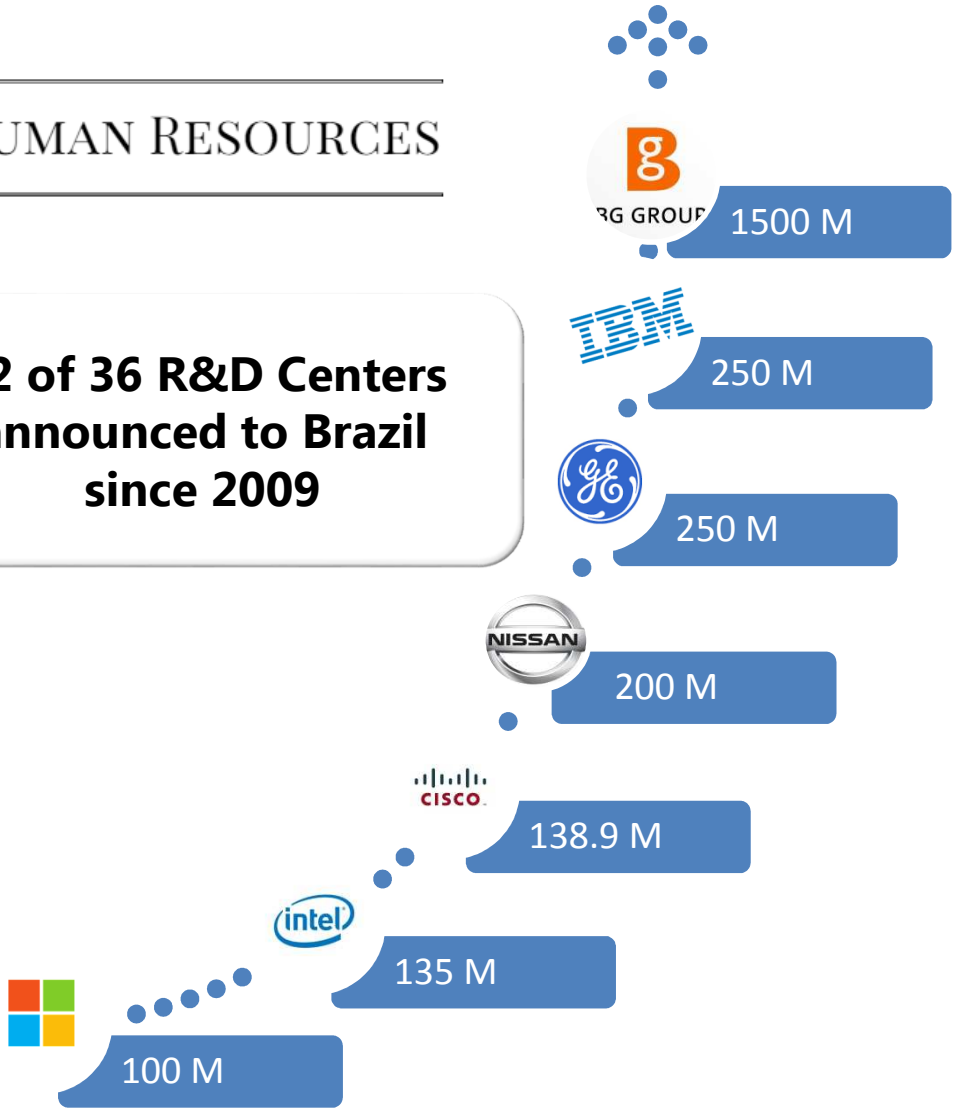
- 4 of 9 top Brazilian Universities
- 67 PhDs per 100,000 inhabitants
- 17 technological education institutions
- 146 universities
- 25 technological centers

Ranking Undergrad

University	City	Grade	# Courses
UFRJ	**RJ**	**5**	**119**
UFMG	BH	5	104
UFRGS	P. Alegre	5	71
UNIFESP	SP	5	41
IBMEC-RJ	**RJ**	**4**	**5**
USJ – SC	São José	5	3
FACAMP	Campinas	5	2
IME	**RJ**	**5**	**1**
FGV	**RJ**	**5**	**1**

HUMAN RESOURCES

22 of 36 R&D Centers announced to Brazil since 2009



Total of investments in R&DC U$D 3,67 B

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Traditional Research Centers
CENPES *Petrobras´Research center*
FIOCRUZ *Brazilian Health Research Center*
CEPEL *Electricity Research Center*
CTEX *Army's Technology Center*
INT *National Institute of Technology*
IMPA *Inst. of Pure and Applied Mathematics*
CBPF *Brazilian Center for Physics Research*
IEN *Nuclear Engineering Institute*
INMETRO *National Institute of Metrology*

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Research & Development and

INNOVATION

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INNOVATION

- **Largest R&D center of the South hemisphere**
- **66% of patent applications in Brazil**
- **3 technology operating parks**
- **4 Parks under development**
- **19 incubators in 19 universities**

UFRJ impa COPPE UFRJ IME PUC UERJ CBPF Centro Brasileiro de Pesquisas Físicas uff Universidade Federal Fluminense

Source: MEC, CAPES, Universities and RN analysis
Note: Courses – Engineering, Physics, Chemistry, Math, IT and Business (Administration, Economics and Accounting

INNOVATION

startup RIO

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110
Developed prototypes

48
Start-ups

+300
People trained

720
Hours of training, workshops and mentoring

R$2milhões
Of revenue since 2014

+50
Events open to the public

2
International missions to Silicon Valley

+R$10m
Public Investment (2% ICMS)

www.startuprio.org

1. Brazilian and foreign digital entrepreneurs
2. R$ 100,000 in capital for projects development
3. Education program with the best mentors
4. 100m^2 of free co-working space

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TECHNOLOGY PARKS

projects	operation	total
RIO DE JANEIRO		7
CAMPINAS		3
RECIFE	2	
FLORIANÓPOLIS	2	
S.J DOS CAMPOS	2	
PORTO ALEGRE	2	
SÃO CARLOS	2	
D. DE CAXIAS	2	
CAMPINA GRANDE		
PETRÓPOLIS	1	

Source: SECTI (2016)

Information and Communications Technology

ICT Sector in Brazil

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More than 95 million Internet users

1,759,000 employees in ICT

257 million mobile phones

Growth of **54.1%** in exports, reaching R $ 5.246 billion

ICT sector growth consistently well above the national GDP (2015):
ICT 8.7% - National GDP -3.85%

Source: BRASSCOM (2016)

ICT Sector in Rio de Janeiro

it's time for RIO (RJ)

Telecommunication Sector	Highlight	Relation to Brazil
Mobile Phones	22.783.736	#3
Land-Lines	5.204.663	#2
Cable TV Clients	2.558.324	#2
Broadband	2.558.324	#2

Source: ANATEL (October, 2016)

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INFRASTRUCTURE

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INFRASTRUCTURE

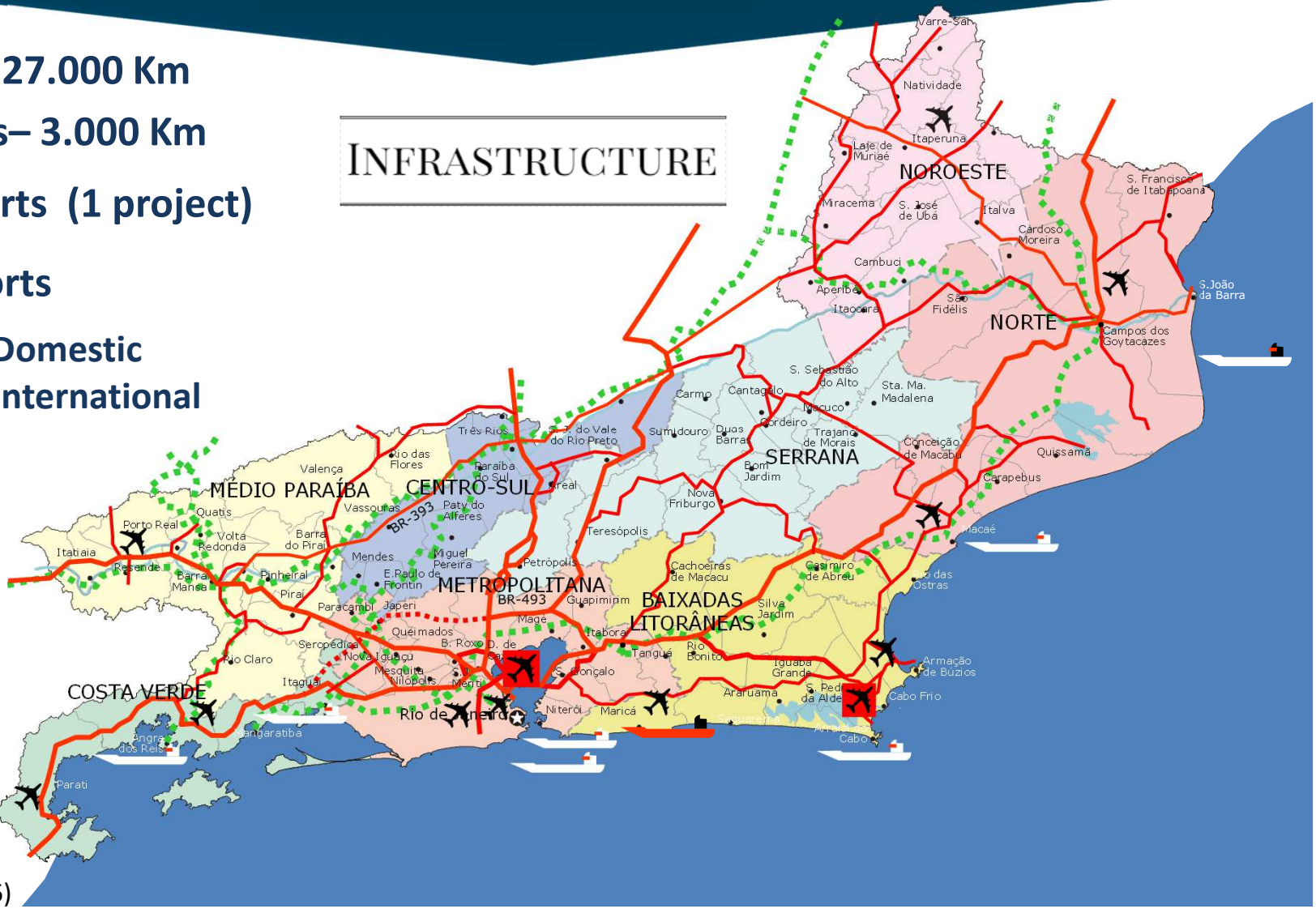
Roads – 27.000 Km

Railways– 3.000 Km

7 Ports (1 project)

12 Airports

- **10 Domestic**
- **02 International**



Source: SEDEIS (2016)

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Açu Port x Brazilian Ports

Açu Port

ACCESS

. Easy access by road and railways
. Strategic Location and retro area
. Integrated with two port terminals (T1 e T2)
. Access roads designed to support industrial demands
. Integrated with national railway network

BERTHS

. New and modern Berths
. Capacity to receive large vessels
. Depth of 24m
. Modern and automated equipment
. Low operational cost model

Other Brazilian Ports

ACCESS

. No access by roads and railways
. Enclosed by big cities with no room for expansion
. Lack of integration with port terminals
. Road access restriction

BERTHS

. Small berths with little capacity
. Handling capacity restriction
. Depth restriction
. Lack of specialized equipment
. High operational cost

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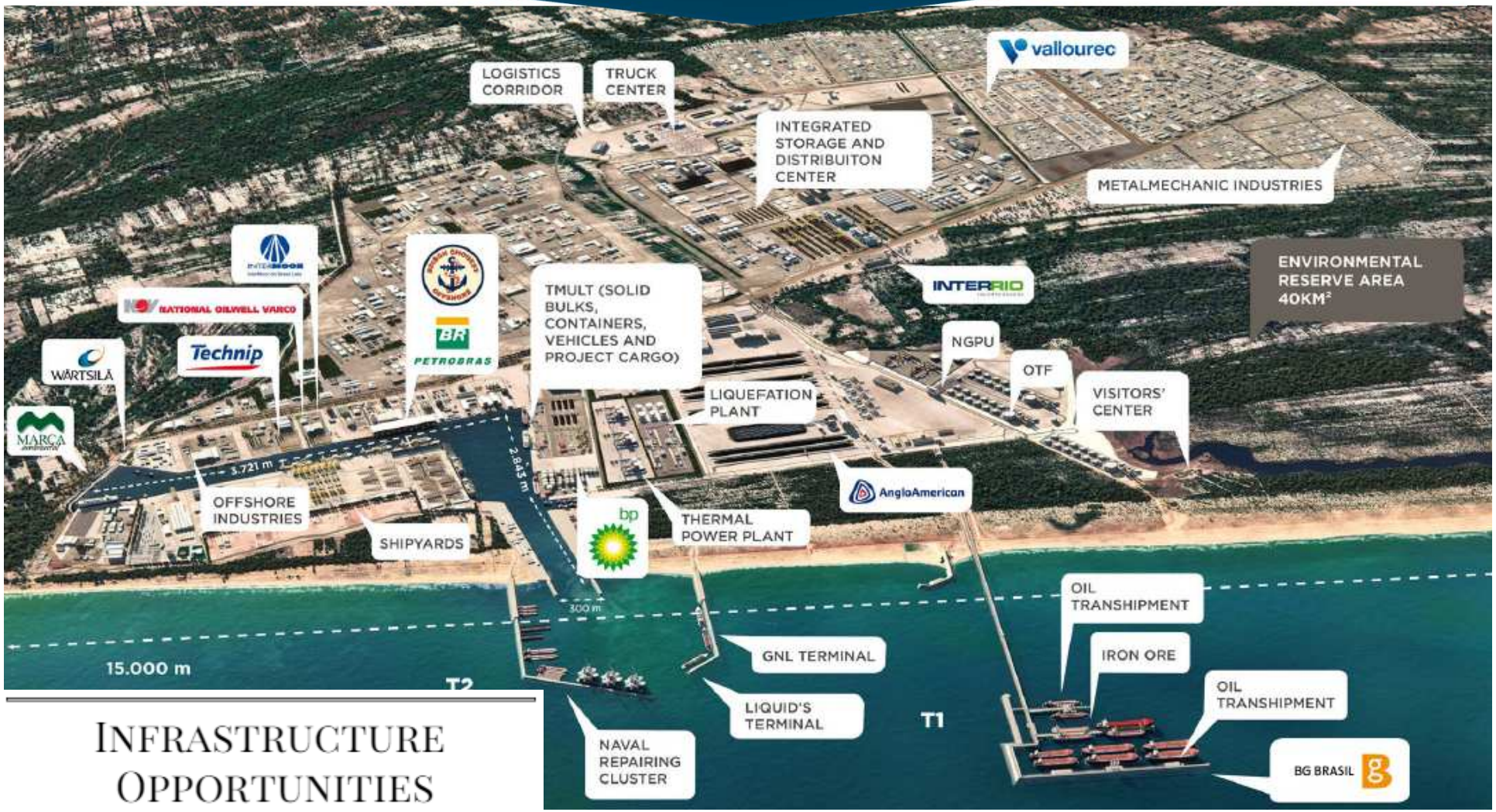

INFRASTRUCTURE OPPORTUNITIES

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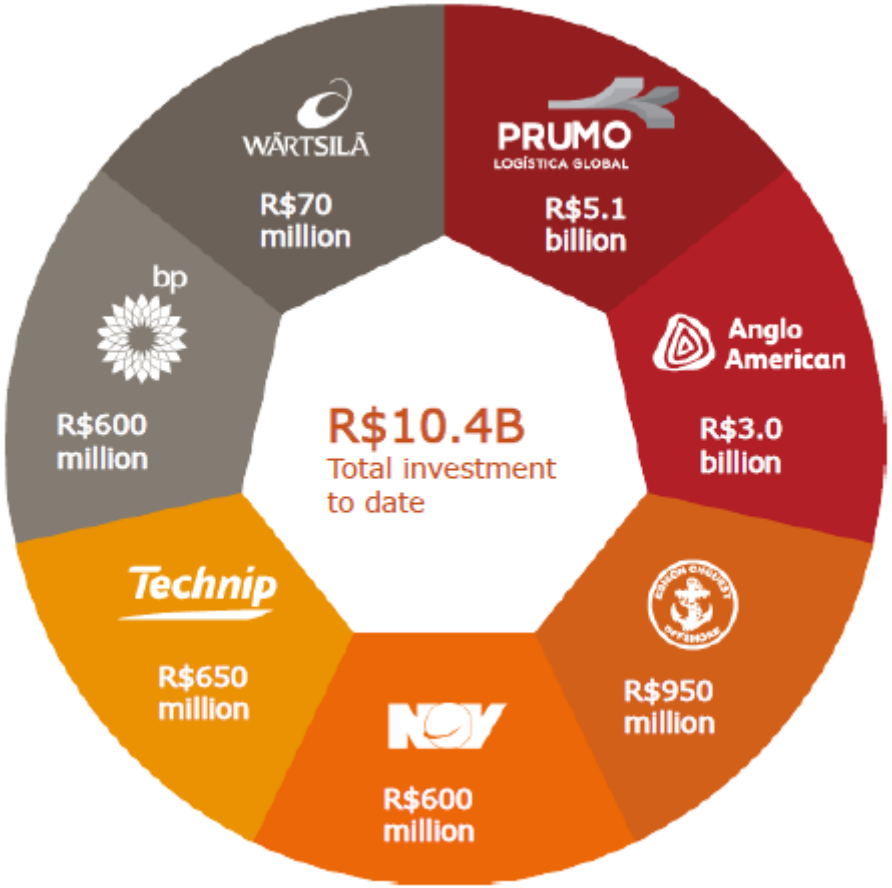
Açu Port – Port Investiments



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The Açu Port

BOLOGNESI

- ✓ The Açu Port has already begun to operate and counts with a large clients base. The Italian company Bolognesi held the dredging of the Port of Açu.

In 2017:
Export Processing Zone (EPZ)
- Zero Rate for ICMS
- 80% export-oriented production

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INFRASTRUCTURE OPPORTUNITIES

-> Implementation, maintenance and operation of Line 3 of the metro.

-> Excerpt: Square Araribóia (Niteroi), to the town of Guaxindiba (São Gonçalo)-> Estimated length of over 23 km.

-> Investment amount: R $ 4.6 billion

-> Needed Investment : R $ 1.5 billion

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Infrastructure Opportunities

The **Strategic Plan for Logistics and Freight (PELC/RJ 2045)**, which is in its final stages of preparation, aims to consolidate and develop the logistics network in the state, seeking greater efficiency and reducing logistics costs.

SANITATION OPPORTUNITIES

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Baixada Fluminense: Implementation and maintenance of the sewage system in the "Baixada Fluminense" and "Guandu basin" with commercial management **involving 11 municipalities.**

Universalization of 80% in 15 years.

investment of R$ 3,6 bi

Sanitation Opportunities

Sanitation of pacified Communities

E&Y and Aegea are developing the projects to implement sanitation systems in **24 pacified communities**

Bidding to select companies for execution of works and operation of water supply and sewage services. **License can last for 30 years.**

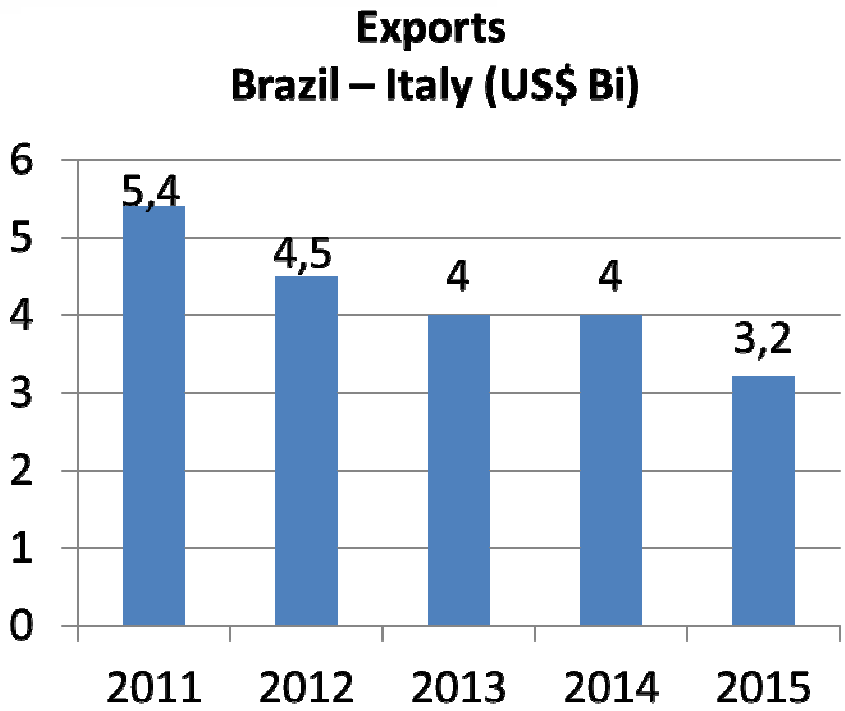
500,000 people and **140,000 households** benefited

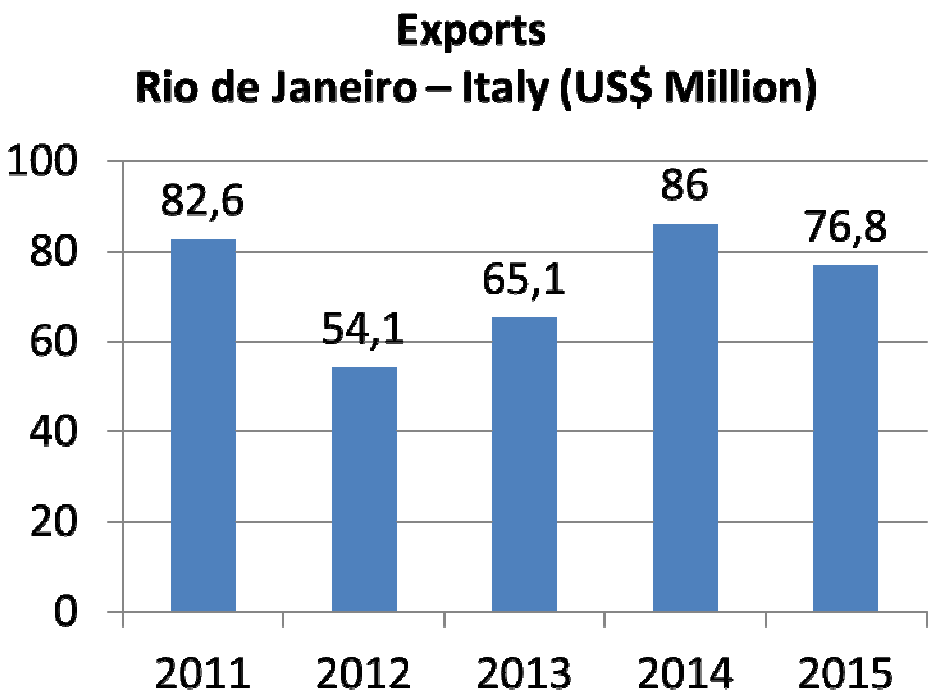
Communities will be divided into 7 blocks	
Block 1	Complexo da Maré
Block 2	Rocinha e Vidigal
Block 3	Complexos do Alemão e da Penha
Block 4	Borel, Formiga, Macacos, Salgueiro, São João e Turano
Block 5	Mangueira, Providência, São Cralos, caju, Cerro-Corá, Barreira do Vasco/Tuiuti, Escondidinho/Prazeres e Coroa/falet/Fogueteiro
Block 6	Cidade de Deus, Santa Marta, cahpéu-Mangueira/Babilônia, pavão-Pavãozinho/Canytagalo e Tabajaras/Cabritos
Block 7	Complexo de Manguinhos

Rio de Janeiro

Italy

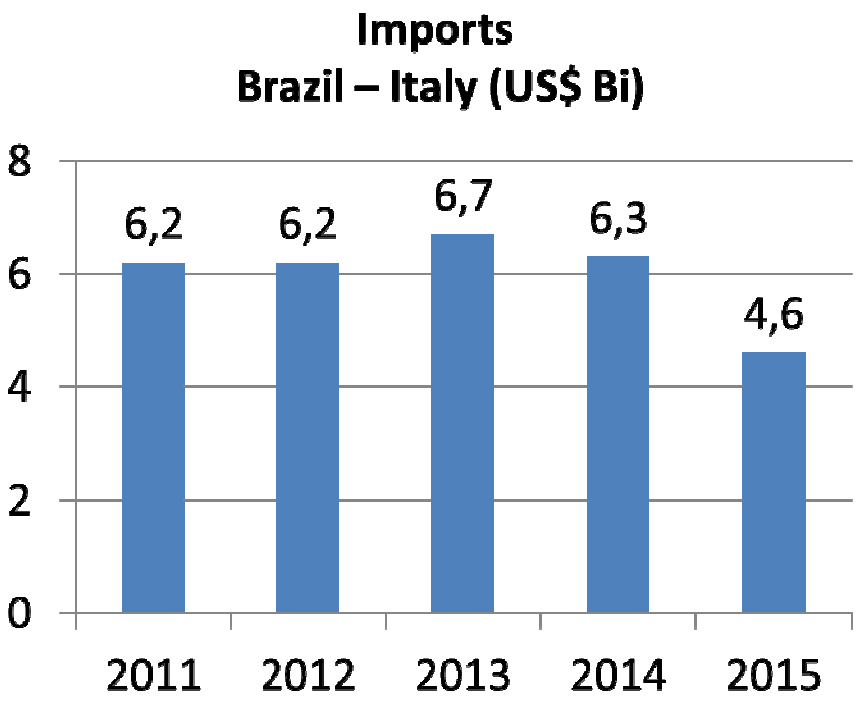
EXPORTS

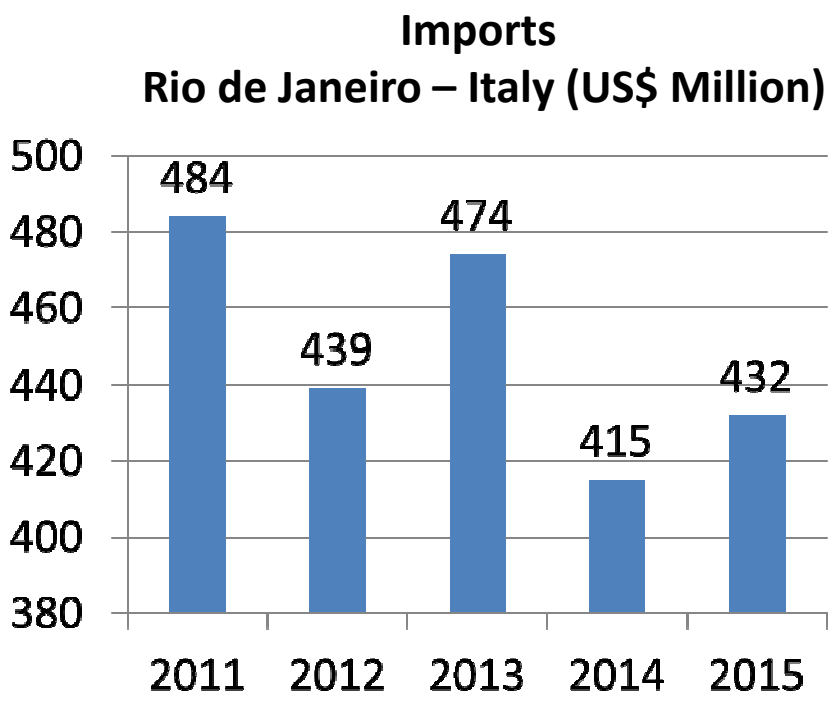




Source: AliceWeb – SECEX/MDIC

IMPORTS





Source: AliceWeb – SECEX/MDIC

Grazie Mille!

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