

Brazil Health Seminar

Rt Hon Kenneth Clarke MP



Brazil: An overview of the country and health sector

John Doddrell HM Consul General and UKTI Director

Brazil: Country Profile





Flag of the Federative Republic of Brazil

Language: Brazilian Portuguese

Currency: Real (BRL)

Capital city: Brasília

Population: 194 million (5th largest in the

world)

Area: 8.5 Million km², 5 regions and 27

states



Striking Facts



RICH NATURAL RESOURCES

25% of world's agricultural land and 22% of world's fresh water

A WORLD LEADER IN PRODUCTS AND EXPORTS

- Largest producer of ethanol; 2nd largest producer of soya
- Largest exporter of meat, chicken and leather
- Largest producer and exporter of coffee, sugar cane and fruit juices

THE ENGINE ROOM OF THE LATIN AMERICAN ECONOMY

Brazil responsible for half of Latin America's GDP. São Paulo state economy alone represents more than Argentina and Chile combined

A FAST DEVELOPING PUBLIC & PRIVATE SECTOR HEALTH ECONOMY

• With a health economy predicted to be valued at \$85bn by 2015



Comparison UK



Indicator	UK	Brazil
Population	62 million	194 million
Land Mass	245,000 km ²	8,500,000 km ²
Real GDP (est. 2011)	\$2.43 trillion	\$2,48 trillion
GDP Per Capita (est. 2011)	\$39,000	\$13,000
Real GDP Growth (est. 2011)	1,1%	2,7%
Ease of Doing Business Index (2012)	7 th	130 th

Sources: IMF; worldbank.org





Valued at \$85bn by 2015

Universal healthcare system. Significant additional investment

Buoyant medical devices market with a large number of imports

Bio-technology parks rapidly developing in Sao Paulo state Brazil produces close to 1/6th of world's biotechnology output Brazilian industry sees the UK as a leader in biotechnology and is looking for British partners



British exports are growing

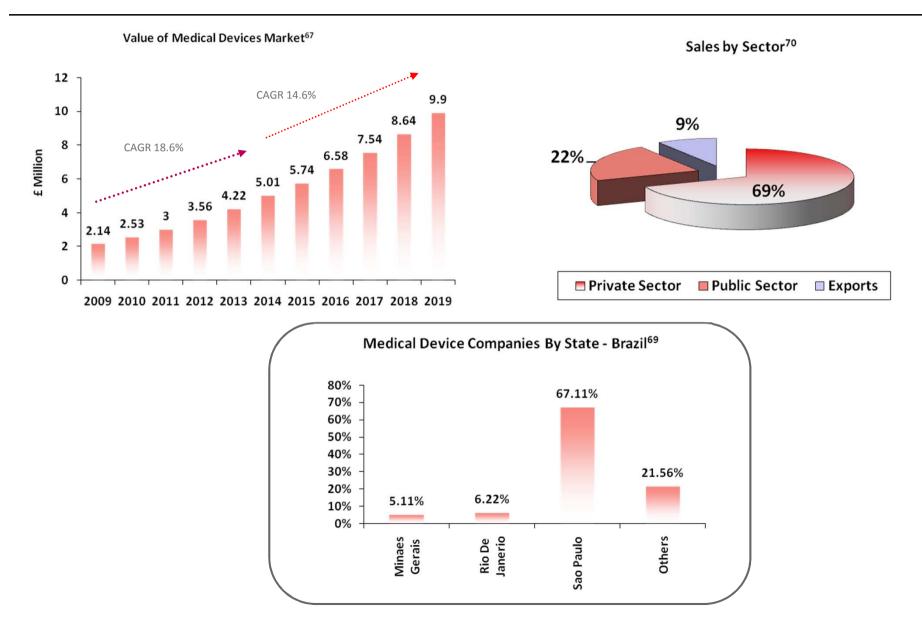
The bi-lateral health relationship is extremely strong with a strong desire on both sides to work closely together

Brazilian private and public sector hospitals are looking for British expertise and products

It is a complex market place and you will almost certainly need a local partner

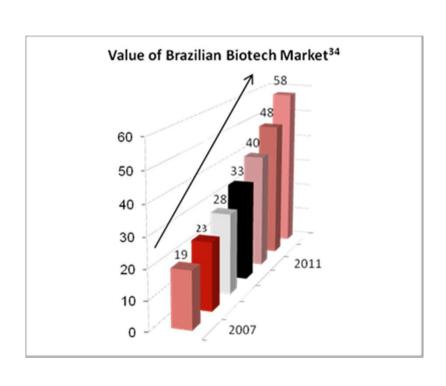


Med tech market is growing



Brazilian biotech market growing





National Policy for biotechnology providing important investment and tax incentives

Special governmental initiatives to encourage innovation

Fiscal incentives to stimulate biotechnology growth

Support

Governmental

State funding available for the top innovators

Health PPP



Federal, state and municipal governments investing billions of dollars in healthcare infrastructure projects

They are looking for international expertise in all areas, including hospital construction

Access to the market is through existing Brazilian PPP consortia keen to meet with British partners

12 PPP opportunities



São Paulo

5 new hospitals

São Paulo

12 new
pharmaceutical
distribution
centres

São Paulo

1000 bed hospital for care for the elderly

São Paulo

Pharmaceutical production plant

Mato Grosso

New paediatric/ maternity hospital

Mato Grosso

New multi specialty hospitals

Federal district

4 new hospitals

Rio

New multi speciality hospitals

Salvador

Construction of infectious diseases hospital

Salvador

New 300 bed hospital

Ceará

Construction of multi specialty hospital

Rondônia

New Hospital

PPP: Next steps



- Full report on all health opportunities in Brazil will be ready before the end of April
- Will include details of :
 - PPP models used in Brazil
 - How to access the market
 - Legal framework for foreign companies
 - Payment commitment by the state
 - How to link with existing Brazilian consortia
- PPP mission to Brazil on 20 May led by Ken Clarke

Not all good news...



- Complicated Tax System / High Import Duties
- Inflexible Employment Laws (CLT)
- Heavy Bureaucracy
- Infrastructure problems, not keeping pace with growth
- High cost of borrowing
- Bilateral Trade Agreements, particularly with other South American countries, create a potential competitive disadvantage for non-members

How can UKTI help?

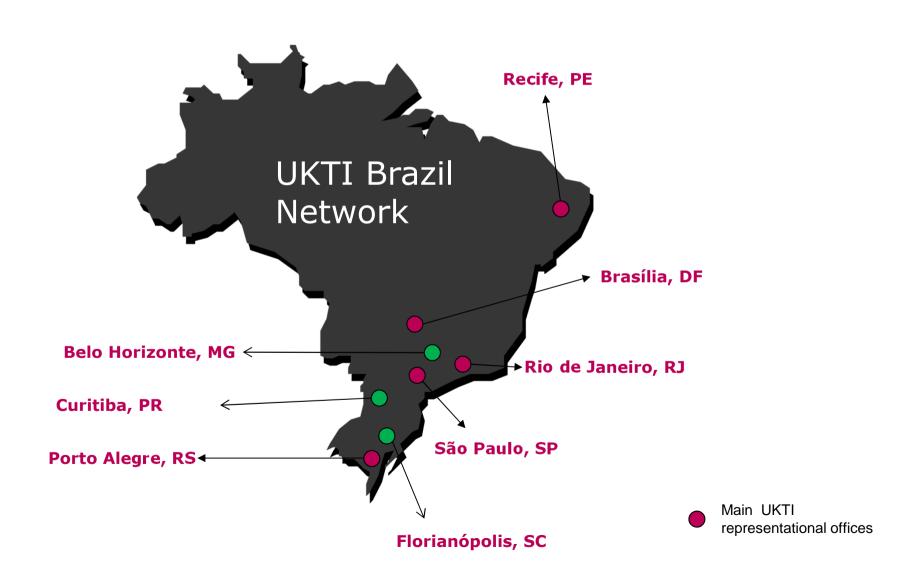


SERVICE TRADE

- Market analysis and **insightful** sector briefings
- Practical support setting up and attending meetings in Brazil
- Identification of potential business partners
- Analysis of market entry strategies
- Advice on local regulations, standards, business practices and culture
- Assistance with organisation of promotional events or seminars
- Marketing and PR services

UKTI Brazil Network





Contact



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Health Sector in Brazil and the role of BNDES

Jaime Gornsztejn

(jaime@bndes.gov.br)

Agenda



- Health Sector in Brazil
- Public Policies
- Challenges and opportunities
- Public-Private Partnerships

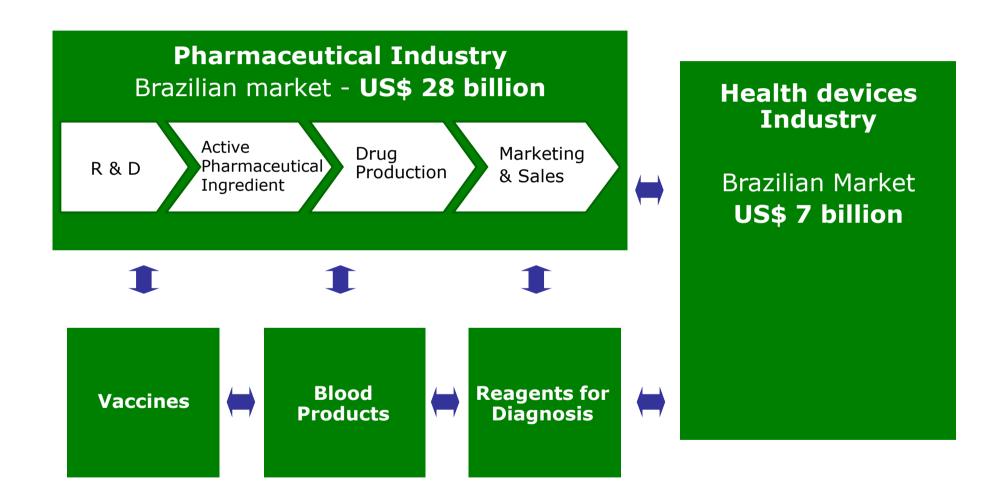
Agenda



- Health Industry in Brazil
- Public Policies
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Health Industry in BrazilStructure





Fonte: Gadelha, 2003.

Health Industry in Brazil Dimensions



Potential to address social, technological, economical and political aspects together

Social Dimension

- Growing demand for health products and services
- ✓ Public Health System (SUS) > 100 million people

Economical Dimension

- ✓ Health expenses 8% of GDP
- ✓ Average Growth 14% p.y. (2003 –2011)
- ✓ Trade deficit US\$ 11 bi (2011)

Health Industry

Technological dimension

- ✓ R&D-based processes
 ✓ Development and spre
- Development and spread of new tecnologies

Political Dimension

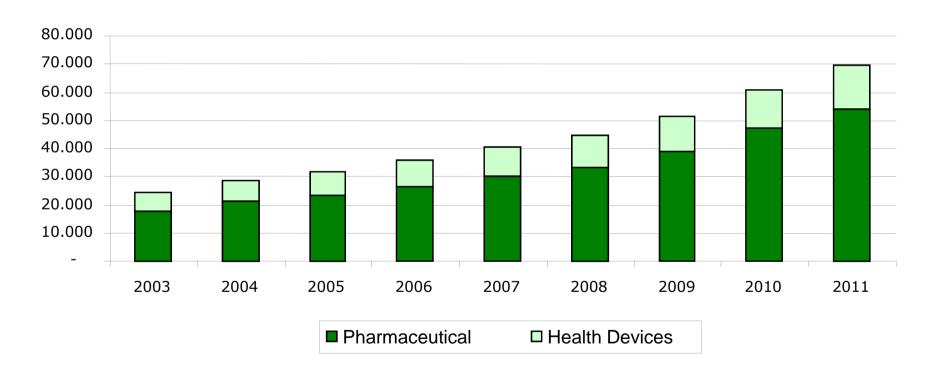
- ✓ Importance of governmental demand
- ✓ Industrial Policy Health Industry as a strategic area

Health Industry in Brazil Growing demand



Average Growth (CAGR 2003-2011)

Pharmaceutical market: 15% p.y.Health devices market: 11% p.y.



Public and private markets

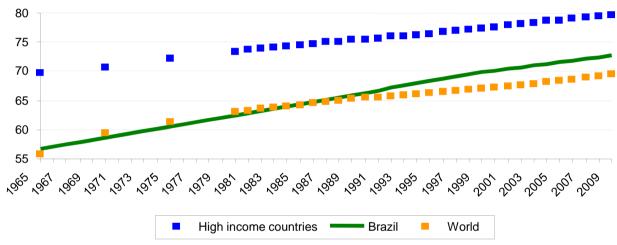
Source: IMS Health / Sindusfarma, ABIMO / IEMI, Ministério da Saúde

Health Industry in Brazil

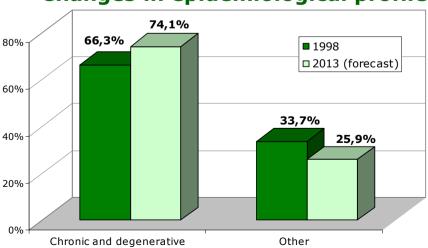
Growing demand



Higher life expectancy



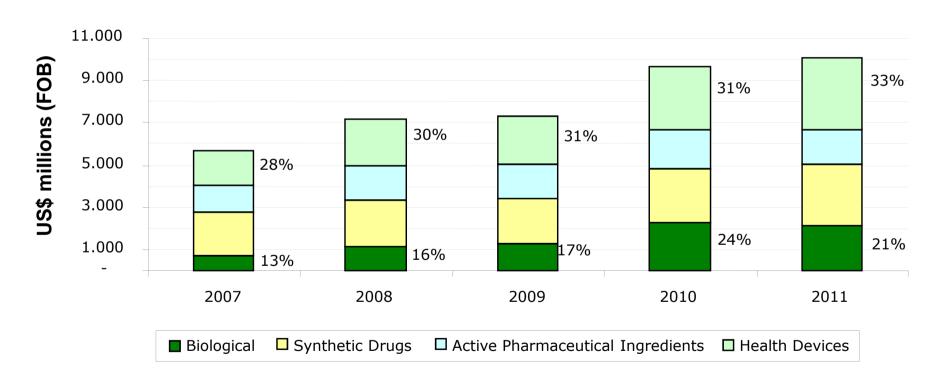
Changes in epidemiological profile



Health Industry in Brazil Dependence on foreign products



Trade deficit



Source: SECEX, Abifina, IEMI / ABIMO

Health Industry in Brazil Pharmaceutical Market



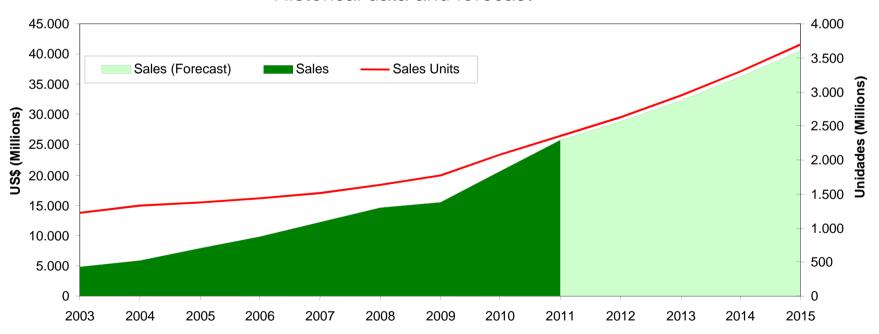
Sales - retailers

Average Growth (CAGR)

- US\$: 24% p.y.

- Qty: 9% p.y.

Historical data and forecast



Source: IMS Health / Sindusfarma

Health Industry in Brazil Pharmaceutical Market



Ranking of Countries (evolution)

	2005			2010		2015
1	United States		1	United States	1	United States
2	Japan		2	Japan	2	Japan
3	France		3	China	3	China
4	Germany		4	Germany	4	Germany
5	Italy		5	France	5	France
6	United Kingdom		6	Italy	6	Brazil
7	Spain	. —	→ 7	Brazil	7	Italy
8	Canada		8	Spain	8	India
9	China		9	Canada	9	Spain
10	Brazil		10	United Kingdom	10	Russia
11	Mexico		11	Russia	11	Canada
12	Australia		12	India	12	United Kingdom
13	South Korea	_	13	Australia	13	Venezuela
14	Turkey		14	Mexico	14	Turkey
15	India		15	South Korea	15	South Korea
16	Russia		16	Turkey	16	Australia
17	Netherlands		17	Poland	17	Mexico
18	Belgium		18	Netherlands	18	Argentina
19	Poland		19	Belgium	19	Poland
20	Greece		20	Greece	20	Belgium

Source: IMS Health, Bio 2011

Health Industry in Brazil Pharmaceutical Market



Priority - Biotech

- Competitiveness
- ✓ Products of high value and fast growing market
- Cost and availability of products for Public Health System (SUS)
- √ 41% value of centralized purchasing
- ✓ Lack of national production
- Technological dynamism => economic development
- ✓ New technological path

INNOVATION

COMPETITIVENESS and TECHNICAL PROGRESS

ECONOMIC DEVELOPMENT

Health Industry in Brazil Medical Equipment Market



Brazilian Health Devices Market US\$ 7 Billion

Segments

Dentistry

Laboratory

Radiology

Medical and Hospital Equipment

Implants

Consumables



Competitiveness varies according to the segment

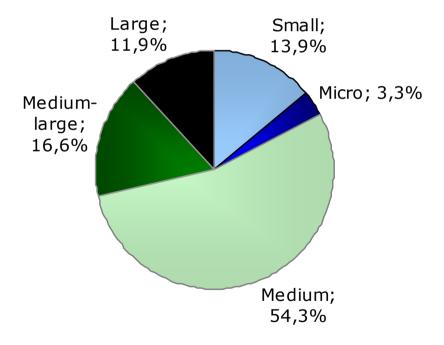
- ✓ Brazilian Health Devices Industry is competitive in:
 - Odontology equipments, devices and services (Dentistry segment)
 - ✓ Neonatal incubators (Medical and hospital equipment segment)

Health Industry in Brazil Medical Equipment Market



Based on small and medium companies

✓ More than 500 companies



Health Industry in Brazil Medical Equipment Market



Drivers for change in the medical equipment industry

- ✓ Change in the demographic and epidemiological profile → increase in health demand
- ✓ Growing importance of diagnostics
- ✓ Trends integrated health care solutions
- ✓ Growing attraction of investments of foreign companies (Philips, GE, Siemens)

Agenda



Health Industry in Brazil

- Public Policies
- Challenges and opportunities
- Public-Private Partnerships

Public Policies Institutional framework



Industrial Policy

Health Comitee (GECIS) Biotech Comitee (CNB)

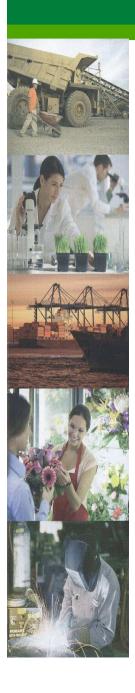
Innovation
System
R&D Centers
Universities

Health Care System (SUS) Funding BNDES / Finep

Regulatory
Sanitary Authority
(Anvisa)
IP Office (INPI)

BNDES Highlights

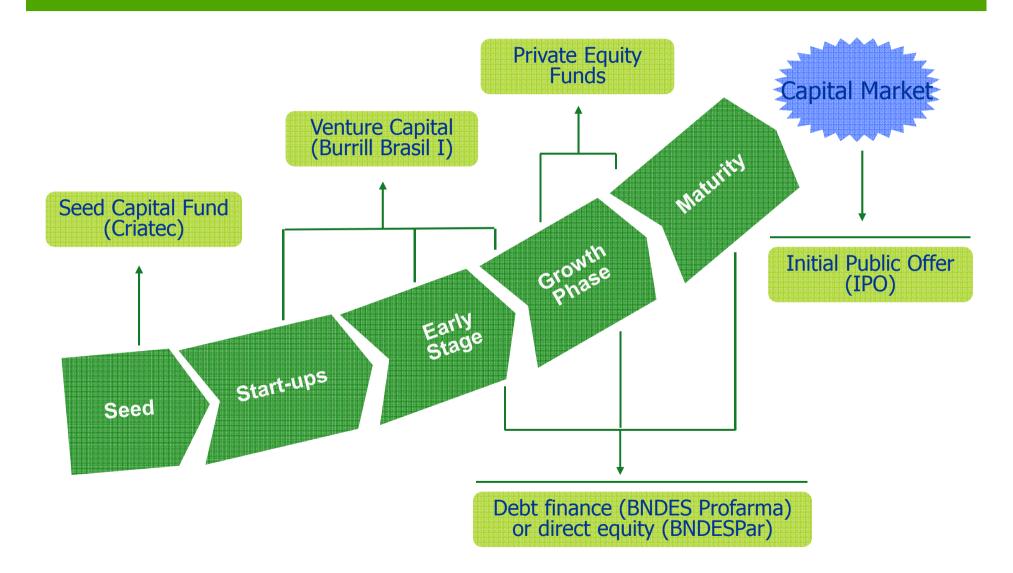




- Fully state-owned company under private law.
- Key instrument for implementation of Federal
 Government's industrial and infrastructure policies broad presence on brazilian economy.
- Provides long-term financing (the main provider) directly or by accredited financial agents.
- Provides equity investment directly or by funds.
- Emphasis on financing investment projects, but also supports exports, environmental and social projects.

Public Policies BNDES Financial Support Toolkit



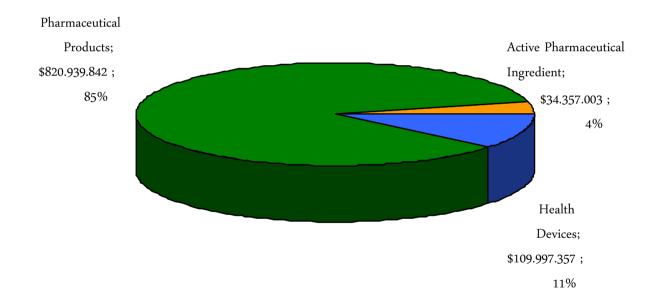


Public PoliciesBNDES Financial Support – Health Industry



BNDES PROFARMA

Portofolio – Activity (contracted and approved projects)



Stock porfolio since 2004

Last update: February 2013

Exchange rate:

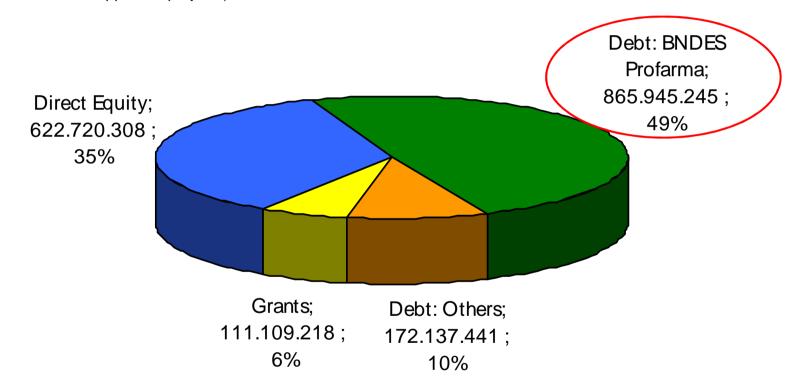
R\$ 1,95 / US\$ (19/02/2013)

Public PoliciesBNDES Financial Support – Health Industry



Portofolio – Instruments

(contracted and approved projects)



Stock porfolio since 2004
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Exchange rate:
R\$ 1,95 / US\$ (19/02/2013)

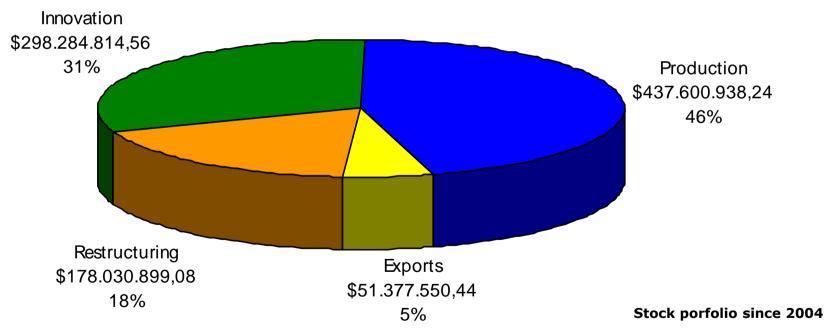
Public Policies BNDES Financial Support – Health Industry



BNDES PROFARMA

Portofolio – Focus

(contracted and approved projects)



Last update: February 2013

Exchange rate:

R\$ 1,95 / US\$ (19/02/2013)

Public Policies Institutional framework



Industrial Policy

Health Comitee (GECIS) Biotech Comitee (CNB)

Innovation System R&D Centers Universities

Funding BNDES / Finep

Health Care System (SUS) Regulatory
Sanitary Authority
(Anvisa)
IP Office (INPI)

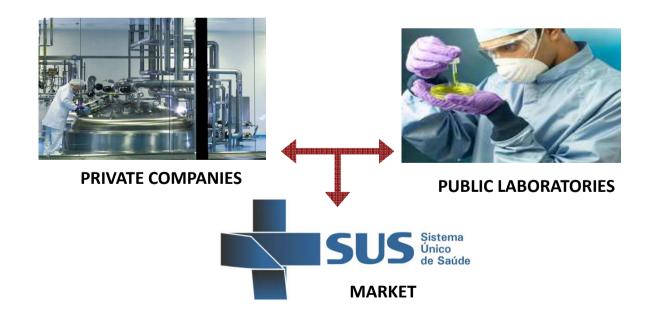
Public Policies



Governmental demand to induce development BNDES

Partnerships for Produtive Development (PDP)

- ✓ Based on technology transfers from private companies to public laboratories
- ✓ Governmental demand: US\$ 2,8 billion
- ✓ Partnerships (formalized and in process) 55
 - 47 drugs
 - 5 vaccines
 - 2 health devices
 - 1 R&D project



Agenda



- Health Industry in Brazil
- Public Policies the role of BNDES
- Challenges and opportunities
- Public-Private Partnerships

Challenges and opportunities



Increase investments in innovation and production

Pharmaceutical Industry

 Development of biossimilars (biotechnology platform) – focus on Brazilian companies

Health Devices Industry

- Increase competitiveness of Brazilian companies
- ✓ Attract investments on R&D of foreign companies to Brazil

Challenges for Brazil, priorities for BNDES



Promote health industry development

Broaden population access to health goods

Increase of
Brazilian
industry
competitiveness

Improvement in local R&D chain

Catch-up in new technological platforms

Diversification of strategic products and services

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BH Basic Health Units







- Scope: construction, renovation, and management/operation of non-clinical services in the basic BH health network;
 - Works: reconstruction of 61 (sixty one) and construction of 19 (nineteen) new Health Centers; construction of 1 Central Sterile Material and 1 Diagnosis Support Unit;
 - Services: cleaning, building maintenance, maintenance of equipment and furniture, concierge, and surveillance.
- Estimated Amount of Investment: US\$ 206 million;
- BNDES/IFC studies in partnership;
- Notice and its attachments are awaiting publication to start the bidding process.

Image Diagnosis Center - BA





- Scope: Deploying of Network SERVICES BIOIMAGEM, hierarchical as the complexity of care, linked by resources of TELEMEDICINE AND INFORMATION SYSTEMS, covering the following tests:
 - conventional radiology
 - Mammography
 - computed tomography
 - magnetic ressonance
- Adequacy of infrastructure of 27 units, and the construction of a central reports;
- BNDES/EBP studies in partnership;
- Ongoing studies: End of a diagnosis of the state of the network / early financial modeling.



- Founded in 1942 to promote trade and investment between Brazil and UK
- Over 200 members in sectors such as oil & gas, energy, mining, financial services, information technology, defence & security, professional and legal services, among others
- Membership base includes major corporates and SMEs
- Information about the Brazilian market (newsletters, database)



- Sample of recent and future events :
 - Briefing on the Brazilian Economy Senior Economist Bradesco Securities - October 2012
 - Networking Reception December 2012
 - Infrastructure Roadshow, with Brazilian cabinet ministers 1st March
 - Joint-Ventures Brazil-UK 20th March
 - Annual Gala Dinner with guest speakers Ken Clarke MP, Sir Frank
 Chapman (BG-Group) and Rubens Ometto (Cosan and Raizen) 14th May
 - Summer Networking
 - House of Commons Networking

www.brazilianchamber.org.uk



Jaime Gornsztejn (jaime@bndes.gov.br)



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Medical Devices Environment in Brazil

London - UK House of Commons February 25th, 2013

Agenda



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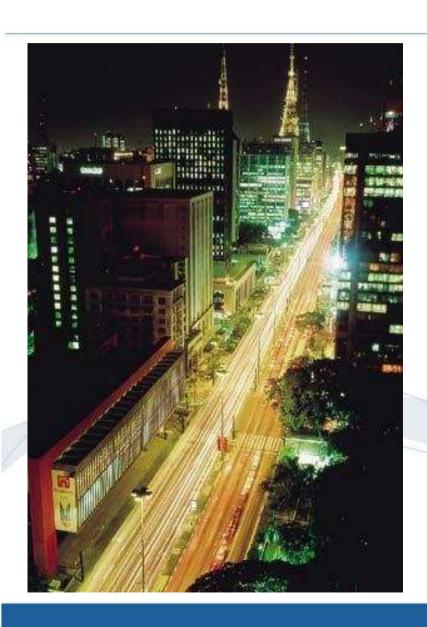
- > ABIMED at a glance
- Socio-economical data of Brazil
- Brazil`s Healthcare Market
- > Regulatory environment in Brazil
- Some useful tips



About the Association



www.abimed.org.br ----



- > Founded on June 18th, 1996
- ➤ Non-profit, non-governmental organization
- > 130 members

Institutional Guidelines



www.abimed.org.br

Vision

 Become the most representative entity in the product segment of ADVANCED MEDICAL TECHNOLOGY in Brazil

Mission

 Represent its members by defending their interests before governmental authorities and departments as well private entities both in Brazil and abroad, fostering the best solutions for the Health industry.

Institutional Guidelines



www.abimed.org.br

Values

Ethics

Fundaments described in the ABIMED's Code of Ethics are complied in all processes of the Association, which is intended to be the paradigm of the ethical behavior of its members

Democratic Principles

Transparency in all management processes of the Association, allowing the effective participation of its members

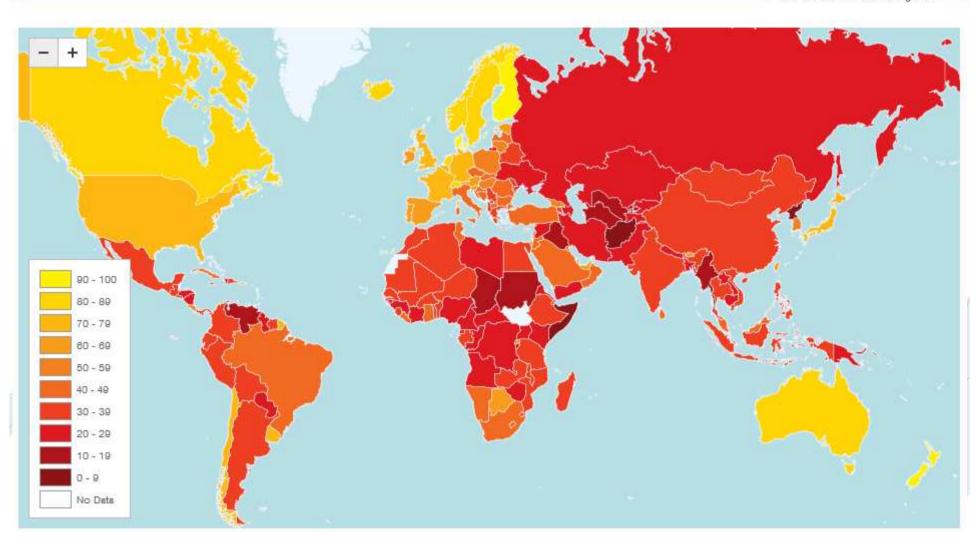
Market and Industry Knowledge

Command of the regulatory norms as well as of the market data, which are made available to the members and to other industry players as well.

Transparency Perception Index



www.abimed.org.br ---



How ABIMED works



www.abimed.org.br

- > Internal Chambers
- ➤ Main Permanent Groups
- ➤ Ad Hoc Groups
- Outsourced services and consultants
- > Interaction with international Associations
- Periodical Meetings with Government Authorities
- > Training and seminars to associates

Strategic goals



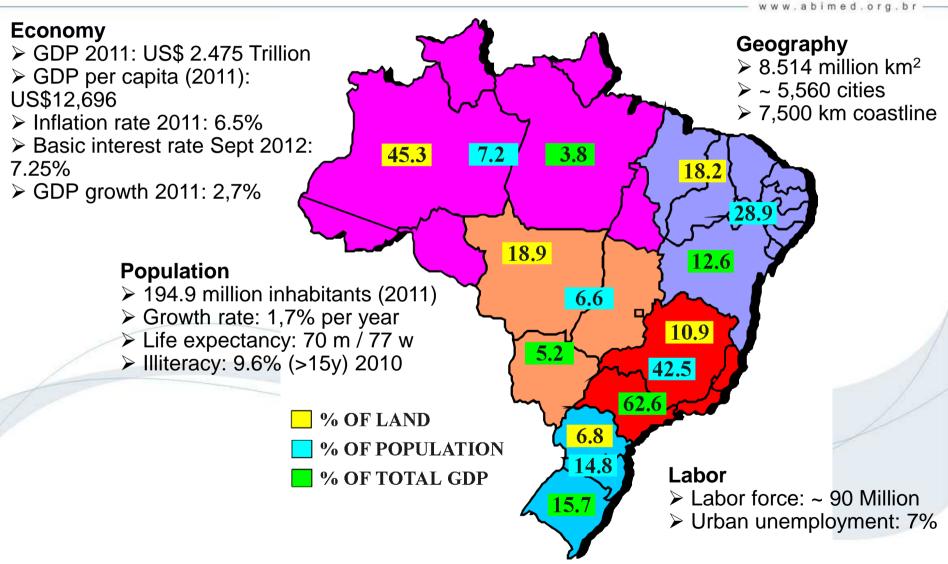
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- 1. Make the Association strong and reference of the Industry
 - 1. Influence demands in favor of the members
 - 2. Revert non favorable decisions
 - 3. Be relevant in the Health Industry and in the Brazilian economy
 - 4. Have credibility and transparency before authorities and its members
- 2. Consolidate the governance model and the management by outputs
 - 1. Assure the financial balance of the Association
 - 2. Assure the accomplishment of the agenda and of the projects
 - 3. Create a professional and compatible organization (Work and sector related groups,)
- 3. Encourage the adoption of Code of Ethics in all activities
 - 1. Revise and update the Code with the best practices
 - 2. Intensify the communication with the members
 - 3. Promote and divulge the Code of Ethics
- 4. Promote access to new technologies Government and Health insurers
 - interact with academic entities and medical societies



Brazil – A country of contrasts





Current policies and tendencies



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- Plan "Bigger Brazil" Innovate to compete. Compete to grow
 - > Foster local innovation and technological development
 - Create and strengthen critical Brazilian competences
 - > Increase intern and extern markets for Brazilian enterprises
 - Assure a *socially-including* and environmental sustainable growth
- ➤ Investment bubble World Football Cup (2014) and Olympics Game (2016)
- Preference to local manufactured products and services in government procurement - Law 12.349/2010
 - > Up to 25%
 - Decree 7.767/2012 Preference for medical devices and materials (from 8% to 25%)
- Trend to regulatory and economical barriers
- > Reduce trade balance deficit

Opportunities & Weaknesses



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> Opportunities

- Dynamic and growing internal market
- Demography bonus
- > Rise of a new middle class
- Pursuit of healthcare and life quality

Weaknesses

- High tax burden
- Deficient infrastructure and logistics
- Lack of qualified labor
- Increase of health costs



Healthcare Structure



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- ➤ Brazilian Constitution states: <u>"Access to healthcare is a right of the citizen and a duty of the State"</u> (Art. 196). Additionally: <u>"Health assistance is open to private enterprise"</u> (Art. 199)
- ➤ Healthcare expenditure is about US\$ 200 billion a year, from which about 55% are private; approx. 25% out of pocket
- Ministry of Health is responsible for the execution of health policy. Under the Ministry of Health are:
 - SCTIE Secretariat of Science, Technology and Strategic Materials
 - ➤ ANVISA National Health Surveillance Agency → independent; power to regulate and control
 - SAS Secretariat of Healthcare Assistance
 - ANS National Agency of Supplemental Healthcare regulates the private sector – HMOs (Health Medical Organizations)

Brazilian Healthcare segment



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- > 6,758 hospitals (70 % private)
- > 464,094 hospital beds
- > 247,350 healthcare services
- > 18,080 laboratories
- > 370,000 physicians
- > 1,48 million nursing personnel
- > 220,000 dentists
- > ~ 80,000 drugstores

Sources: CNES, ANVISA

General Overview



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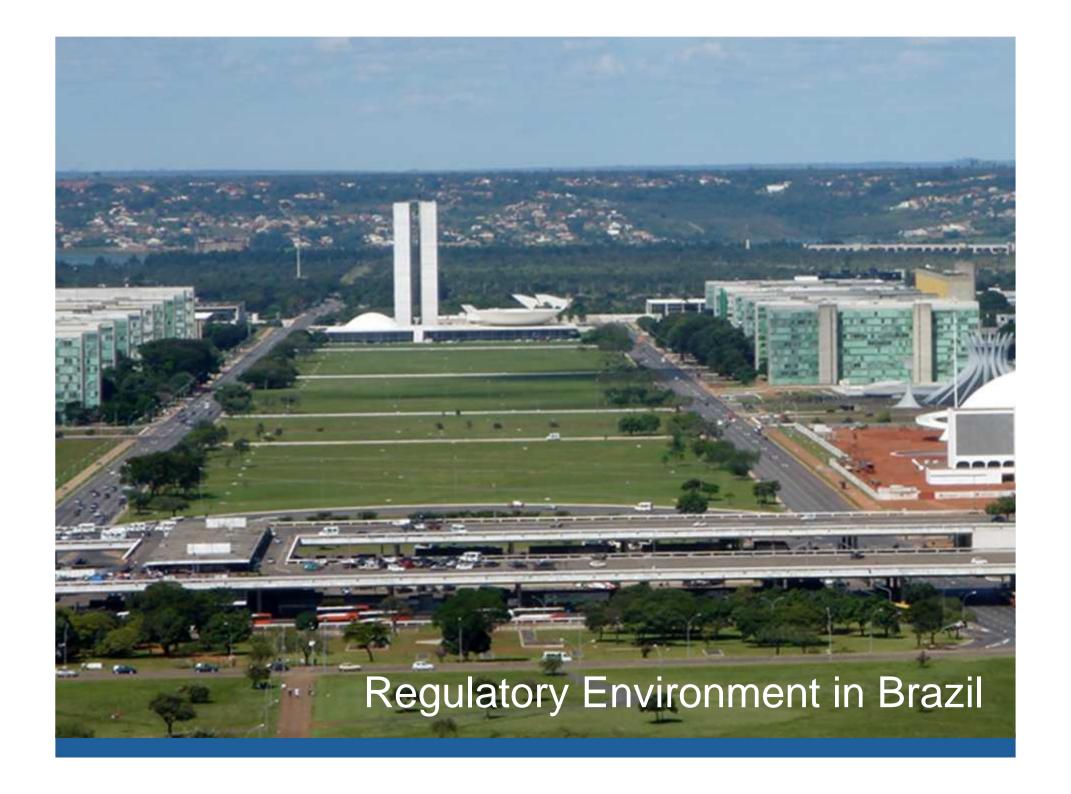
Beds	SUS	Non SUS	Total
 Surgery 	76,666	40,495	117,161
 General 	84,245	31,671	115,916
 Psychiatry 	38,764	11,693	50,457
 Pediatrics 	48,273	10,900	59,173
 Obstetrics 	22,700	5,894	28,594
Other	50,629	14,427	65,056
• ICU	17,357	10,380	27,737
Total	338,634	125,460	464,094

Medical devices market



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- > Total : US\$ 16.6 bi
 - > 0.6% of Brazilian GNP
- ➤ Import: US\$7.7 bi
- > Export: US\$1.5 bi
- > 13,000 companies
- > 120,000 employees



Product Registration RDC 185/2001





Class I – LOW RISK

Non-invasive products, temporary use



Class II – MEDIUM RISK

Invasive products, short use



Class III - HIGH RISK

Surgical products, long term use



Surgical products, long term use, Class IV - MAXIMUM RISK direct contact with CNS, CS or biologically absorbed

Regulatory history in Brazil



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1976 Law 6360	1977 Decree 79094	1996 Port 01 Port 08		RDC 97	2001 RDC 185 RDC 56		2006 RDC 185 RDC 206		2009 CP 02 RDC 24 RDC 25	
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General Law of	1st Definition of	1st Regulation for Medical Devices and	Creation of ANVISA	Family of MD'sGood	New MD registration process	Isenção de Registro de Correlato	Economical Data for MD's	New compulsory certification	Post Market – Adverse events Draft
Sannitary	Medical	IVD	National	Manufaturing	Essential	(revoked in	New IVD	acc. IE 60601	
Surveillance	Devices		Health Surveillance	Practices for MD's (starting	requirements for	May'09 by	registration	INMETRO 	Cadaster –
1	("Correlato")		Agency	locally)	MD safety and effectiveness	RDC 24)	process	List of IEC	Simplification of classes I & II
				Inspired in FDA 's	Inspired in			60601-2-X standards	
				21CFR 820	MDD93/42 EEC			applicable to	International
								compulsory certification	GMP inspection
									compulsory to Classes III & IV
									starting 2010

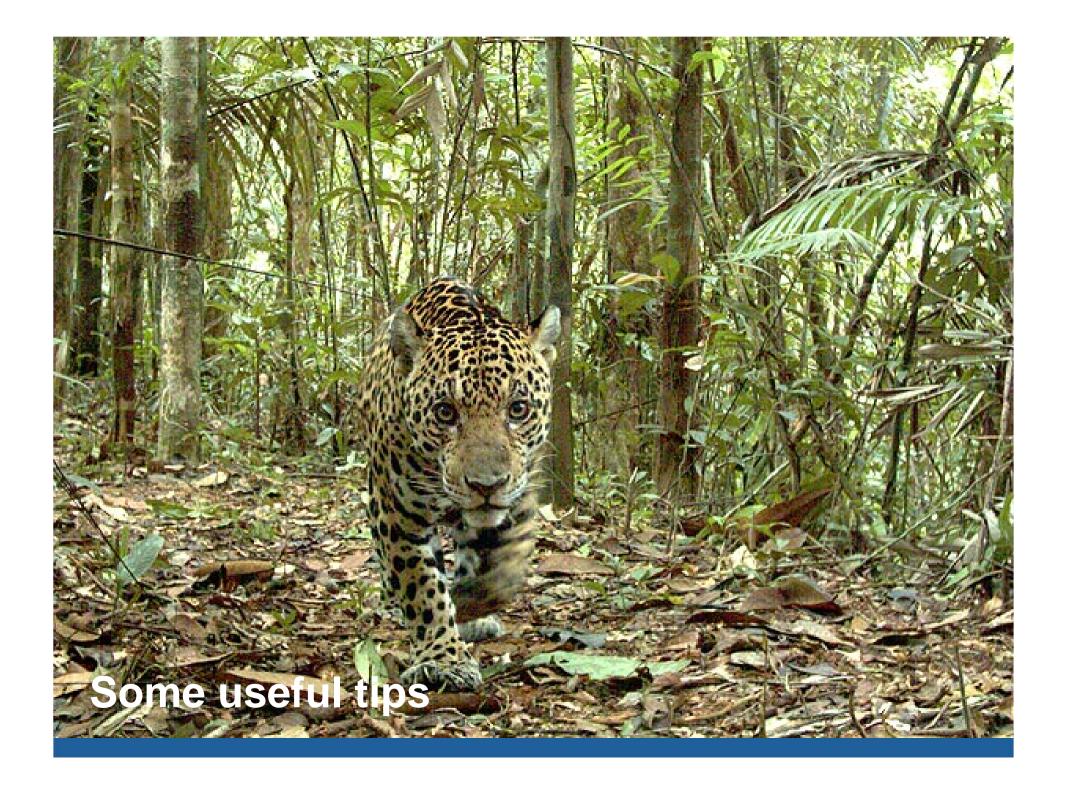
Time to Market



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	By Laws	AFE		GMP	Product Certification (*)	Product Registration or Inclusion	
Class I	3 mo	8-10 mo			3 mo	6 mo	
Class II	3 mo	8-10 mo			3 mo	6 mo	
Class III	3 mo	8-10 mo	3	6-60 mo	3 mo	12 mo	
Class IV (*) Can be done	3 mo	8-10 mo ly to other phases	36	6-60 mo	3 mo	12 mo	

This journey may consume from 20 to 88 mo



Some useful tips:

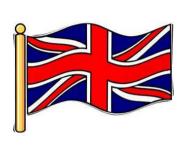


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- Choose your business mode (direct, indirect or even both)
- Work with your lawyer in connection with a local one, especially in the event you choose an indirect business approach
- ➤ The selection of your business partner is of upmost importance to your success Work hard and deeply on this selection
- Same for pricing
- Remember, Brazil is a very big country chances are that a single dealer won't be a good idea
- Consider the segregation of registration ownership from a distribution contract
- ➤ In doing product registration be prepared to respond questions that you may think are not necessary Be proactive as it will save time



Brazilian Health Seminar London 25th February 2013







Our Experience in Brazil

Stephen Williams
Sales Director Intersurgical Ltd



Some Statistics

- Population 194m (July 2012) 2.74% of the world and the 5th largest.
- 67% 15 64 years of age
- Sao Paulo 18.8m, Rio 10.5m, Porto Alegre 3.7m
- 7500 hospitals, 4560 private, 2940 public.



How we started...

- **First mistake** in 2002 we were approached by a distributor to sell our products in Brazil who registered the products on our behalf.
- Always do your homework first!



Get registered yourself....

- In 2004 we realised that we could register our products locally in our own name by using a local Anvisa registration specialist – lawyer.
- As with most things in Brazil this process takes some time and is costly, but worth it as this gives you control on who you sell to in the market.





Then we started to move forward

- By 2005 we had registration of two product groups, filters and breathing systems and started to sell through our first distributor based in the south. This distributor then introduced us to another in Sao Paulo.
- Over the next five years we started to set up our distribution network. Not all distributors are able to import and some only act as local distributors.
- No one distributor can cover all Brazil.
- But beware, finding distributors can be a lottery!



Bureaucracy and Taxes

- Also be aware that the cost (tax) to import products into Brazil is about 100%, this is to help and protect local companies.
- However, as with Intersurgical, if all your competitors also import you are OK.
- To be successful in Brazil you have to be aware of the "bureaucracy culture" and understand the timing to get through all the stages.



Finding distributors

- In 2006 / 2007 we had our first stand with the British Pavilion at Hospitalar and employed a new Regional Manager based in Brazil – important.
- In 2007 we held our first distributor's meeting in conjunction with the exhibition
- From 2008 onwards we have had our own stand at Hospitalar ...



Hospitalar Sao Paulo Brazil





Moving onwards...

- During these formative years we chose further products to register and introduced more regional distributors.
- In 2011we decided to get some some help from the commercial dept at the Consulate in São Paulo / UKTI and we ordered a report about setting up ourselves in Brazil.
- We are now actively, but slowly moving forward with this plan to manufacture and sell locally and into Latin America



Setting up Intersurgical Brazil

- An important point to mention is the complexity of bureaucracy in all processes from registration at Anvisa to selling to the end user (hospitals) which adds a long time & costs to start doing business effectively in Brazil.
- Also there does seem to be lack of knowledge of the professionals in general who do the registrations, consultants, import forwarders, etc, which can cause delays and expensive penalties.

Interesting Information

 This documentary is interesting. The example (confectionary) is similar to healthcare because it also involves ANVISA

 http://www.bbc.co.uk/news/business-18020623



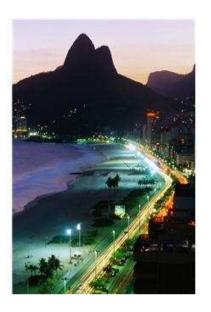
And Finally....

- I can say that Brazil is a high potential market for the healthcare business, being in the 10 top world economies not only for now, but thinking towards the future. But to be successful you have to be aware of the "bureaucracy culture" in Brazil and understand the timing required to get through all the stages.
- By 2014 Intersurgical hope to have a fully functioning local factory and sales operation in Brazil which will also act as our Latin America sales office selling without issue into the local Mercosur countries.









Many thanks for your attention





Questions and answer session

Rt Hon Kenneth Clarke MP