



Innovation and Intellectual Property as Engines for Competitive Agribusiness: Empowering Women Researchers and Entrepreneurs in Africa



The Importance of Intellectual Property Management in the Technology Transfer from Publicly-funded R&D for Agriculture and Agribusiness



Overview

- ✓ Brazilian Agricultural Research Corporation
 - ✓ Business Secretariat
 - ✓ Intellectual Property Coordination

- ✓ Intellectual Property Portfolio
 - ✓ Outline about the Patent Applications

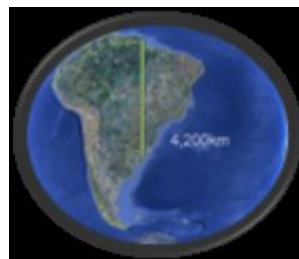
- ✓ Challenges



Institutional Building and Strengthening: Brazil has created a large research system for agriculture

THE BRAZILIAN AGRICULTURAL RESEARCH CORPORATION:

- ✓ 47 Research Centers Dedicated to Technology Development
- ✓ Largest Agricultural Research Organization in Latin America



Size & Environmental Complexity

*City of Brasilia
(Federal District)
(capital of Brazil)*

Women at Embrapa

30% of total Employees

31% of the management positions





Agroenergy

Embrapa Agroenergy
(one of our research units)
has the most expressive
women participation at
Embrapa:

56% of its total
employees.

**Embrapa Agroenergy has
33 PhD researchers, 12
are women.**





Executive Board



President
(Maurício Lopes)



Executive Director of Administration and Finance
(Lúcia Gatto)



Executive Director of Research & Development
(Celso Moretti)



Executive Director Innovation and Technology
(Cleber Soares)

Central Administrative Units (15)

Business Secretariat



Legal Advisory Office

Secretariat for International Affairs

[...] more 12 Central Administrative Units

Research Centers Units (47)



Business Secretariat Coordinations

Business Secretariat



✓ Embrapa Intellectual Property Management.

✓ Patents, Plant Variety, Trademarks and Software: IP analysis, filings and prosecution.

✓ IP Technical Support in negotiations.

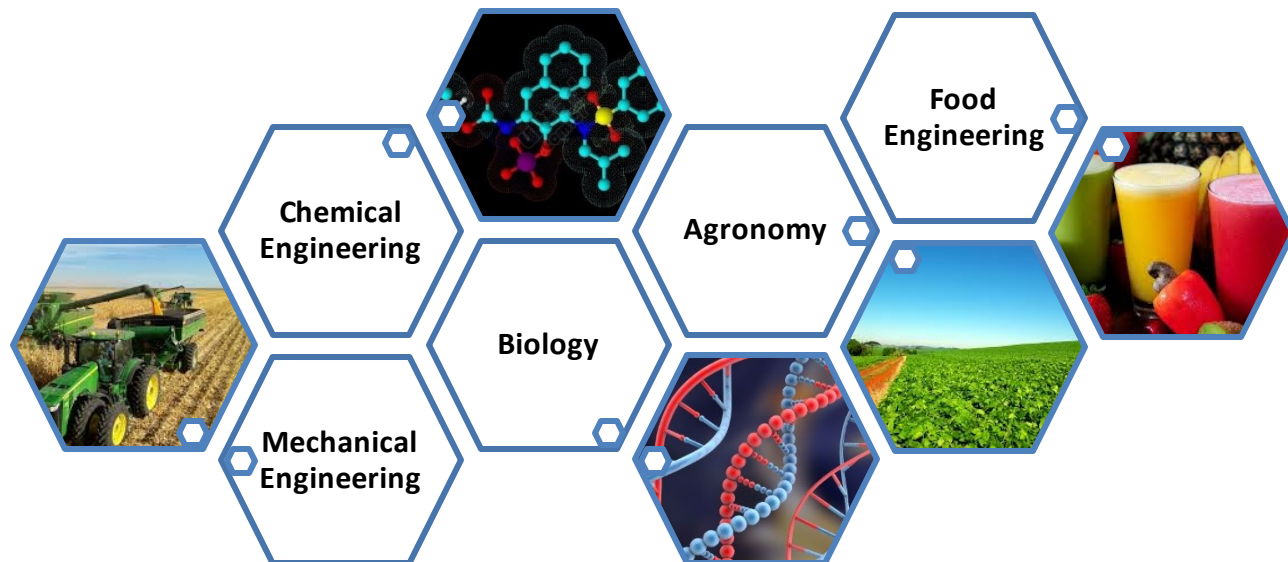


Intellectual Property Coordination

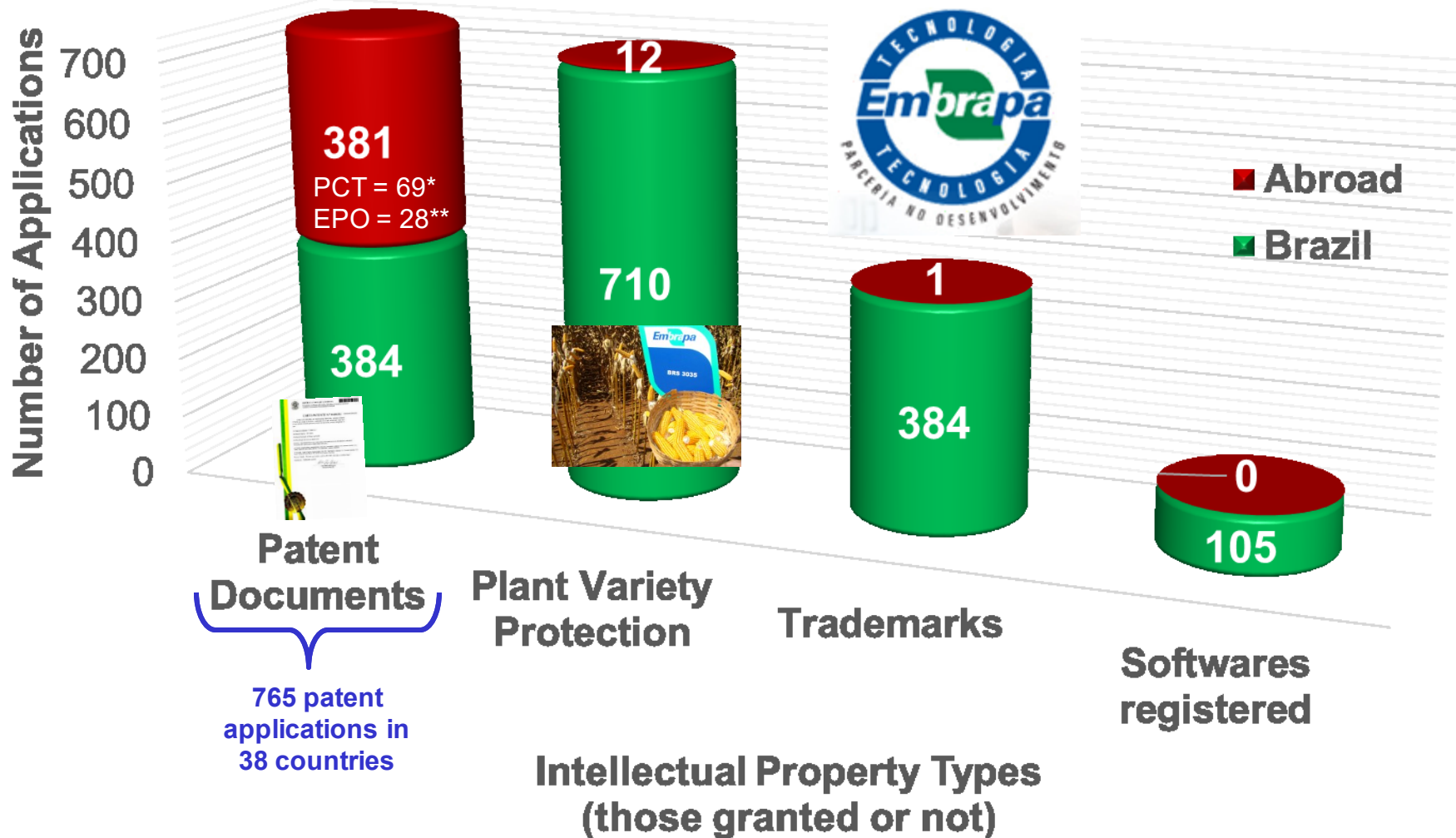
IP TEAM

Intellectual
Property

- **Coordinator**
- **Supervisor**
- **Administrative Support (1)**
- **IP Analysts (6)**



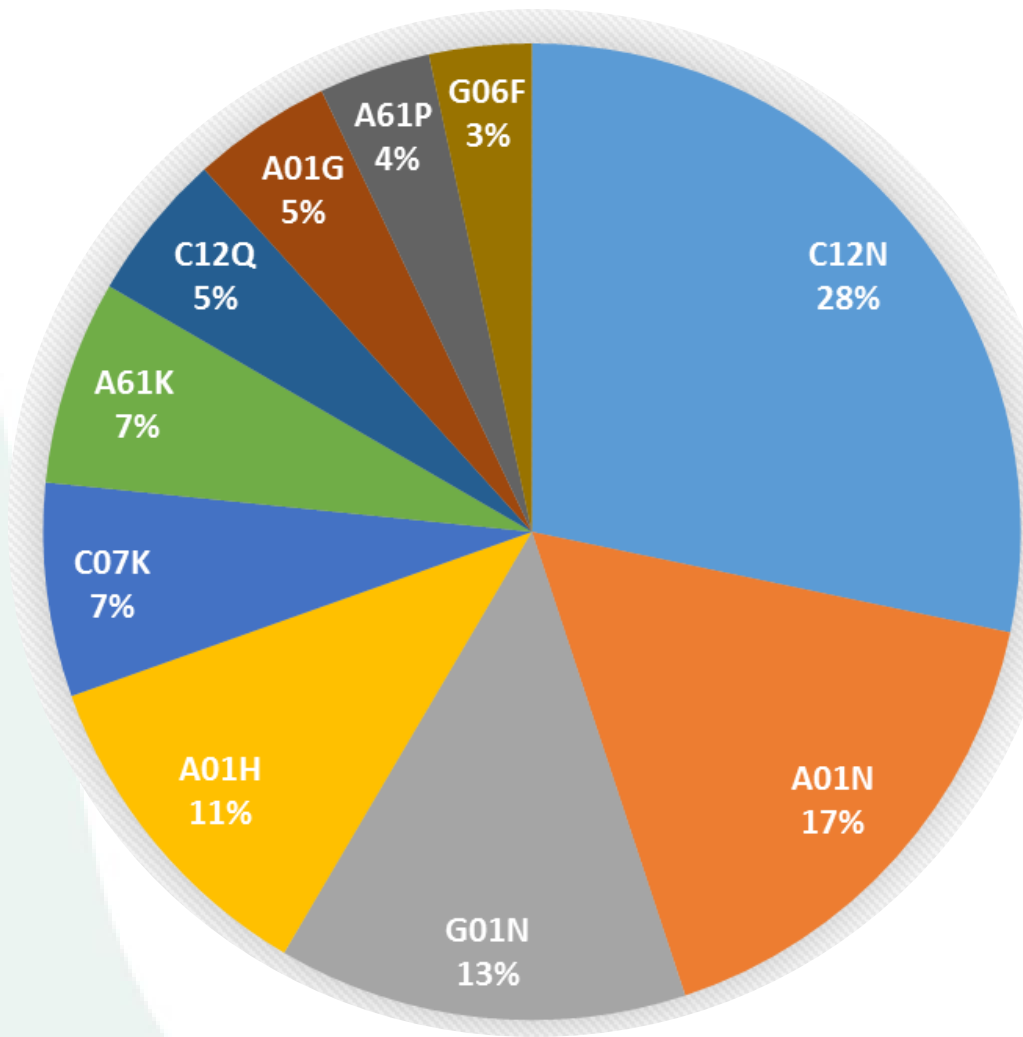
Embrapa IP Portfolio Overview



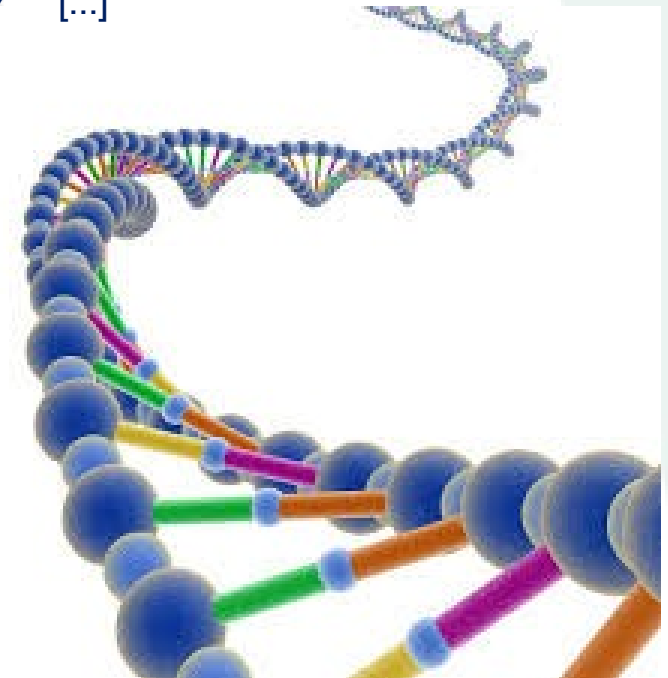
*Patent Cooperation Treaty

**European Patent Office

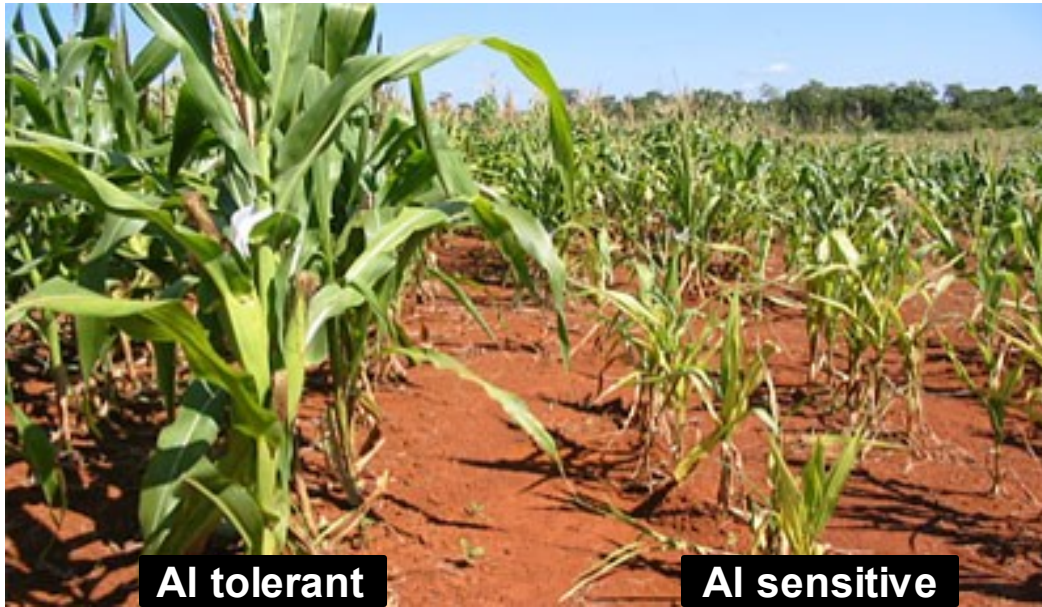
Share of the main IPC* of Embrapa Patent Filings



- ✓ MICRO-ORGANISMS; ENZYMES; COMPOSITIONS THEREOF;
- ✓ MUTATION OR GENETIC ENGINEERING; CULTURE MEDIA;
- ✓ BIOCIDES;
- ✓ PEST REPELLANTS OR ATTRACTANTS;
- ✓ PLANT GROWTH REGULATORS
- ✓ [...]



IP related Examples



**SORGHUM
ALUMINIUM
TOLERANCE
GENE**



**DIHEDRAL SENSOR FOR
DETERMINING TENSION, POTENTIAL
AND ACTIVITY OF LIQUIDS**



**SOFTWARE FOR DRONES
(MONITORING
FARM FIELDS)**

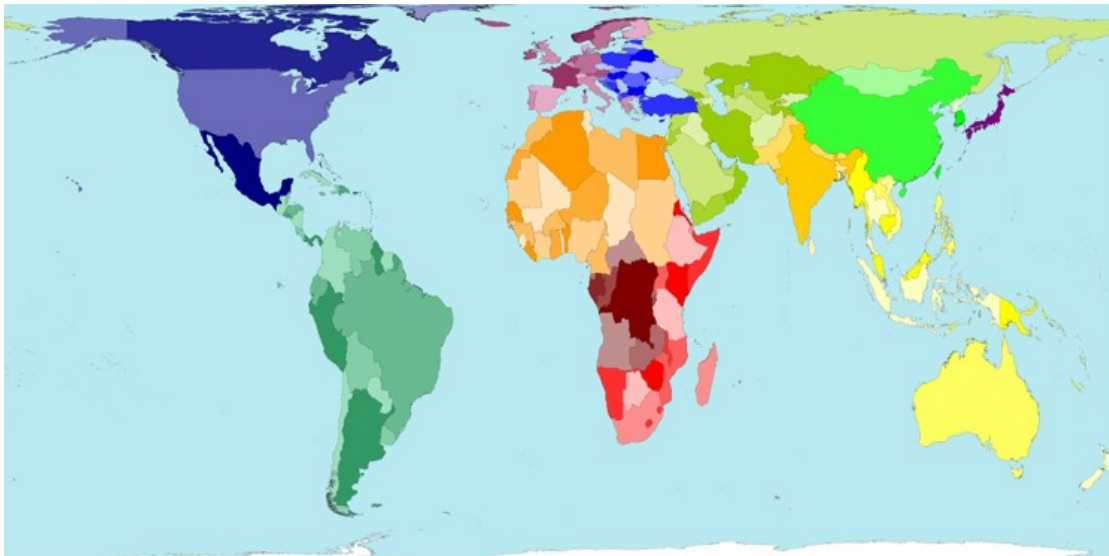


IP related Examples: development of new applications (Apps)



Think outside the box

- ✓ Learning & Capacitation:
 - ✓ Improving writing patent applications
 - ✓ Specializing in patent searches
 - ✓ Encouraging patent searches
 - ✓ Structure local IP teams in the Research Ur



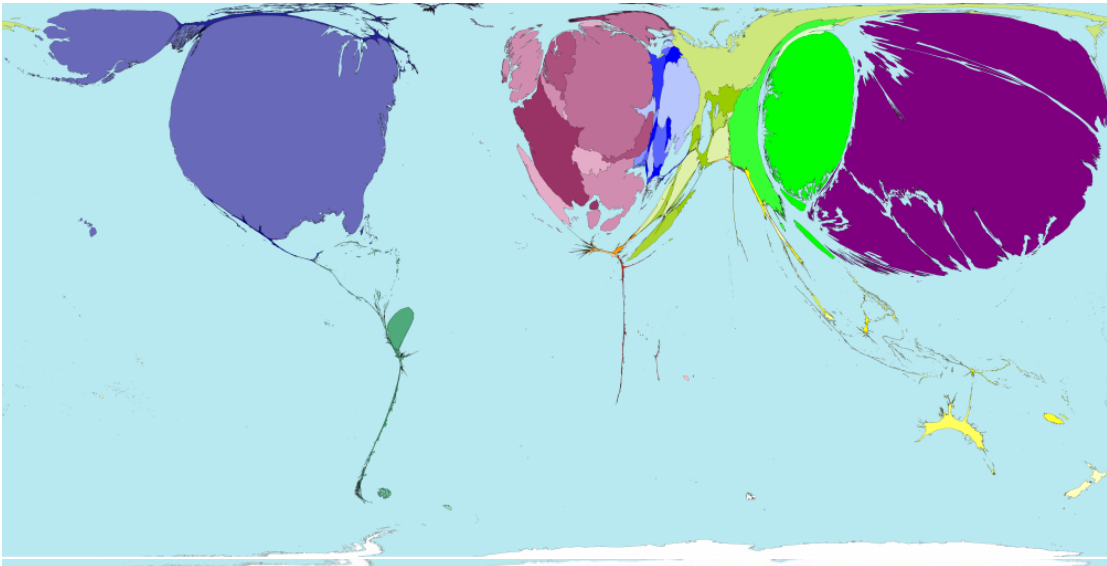
<http://www.worldmapper.org>

Challenges



Think outside the box

- ✓ Learning & Capacitation:
 - ✓ Improving writing patent applications
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<http://www.worldmapper.org>

Challenges





If you have any questions, I would be happy to answer them.

شكرا
Shukran.

Je vous remercie de votre attention.

Thank you for your attention.

