



Ministerio de
**Ciencia, Tecnología
e Innovación Productiva**
Presidencia de la Nación

AGENCIA
NACIONAL DE PROMOCION
CIENTIFICA Y TECNOLOGICA



Workshop Argentina-Japan
“Bioscience and Biotechnology for the Promotion of Agriculture and Food Production”
Buenos Aires, august 2009

National Agency for the Promotion of Science and Technology

Creation

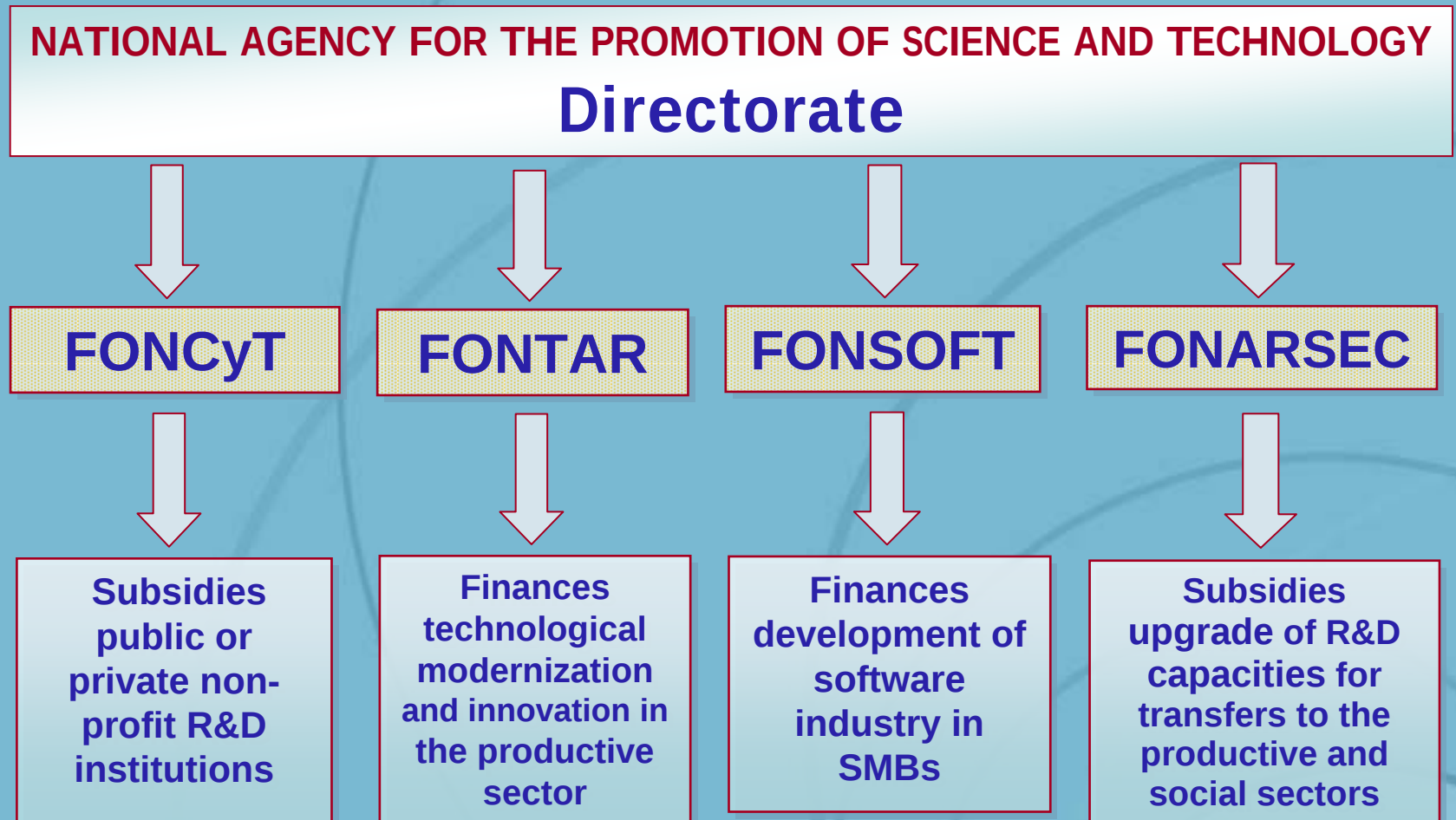
The Agency was created at 1996.

Its objective is the promotion of activities aimed at the development of science, technology and innovation.

It is a distinctive feature of the Agency to be *exclusively* dedicated to promotion.

The Agency provides support to research groups on the basis of a *quality assessment*, irrespective of their affiliation.

Organization



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2008 Results

In the year 2008, the AGENCIA through more than

330 Directorate Resolutions

Awarded promotional benefits to institutions and companies, for a

Total Amount of u\$s 234.564.749-

Targeted to the execution of

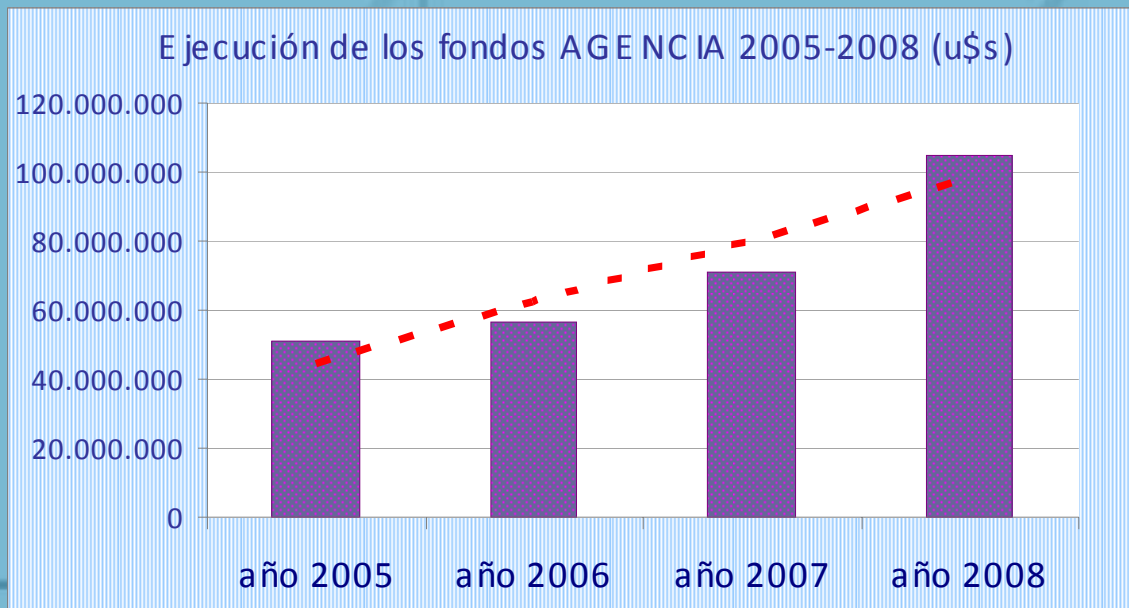
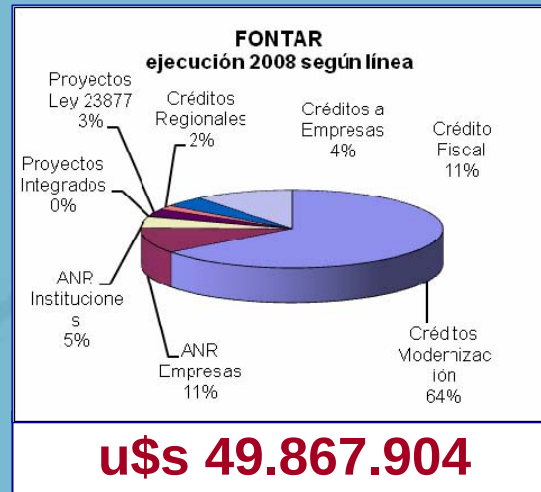
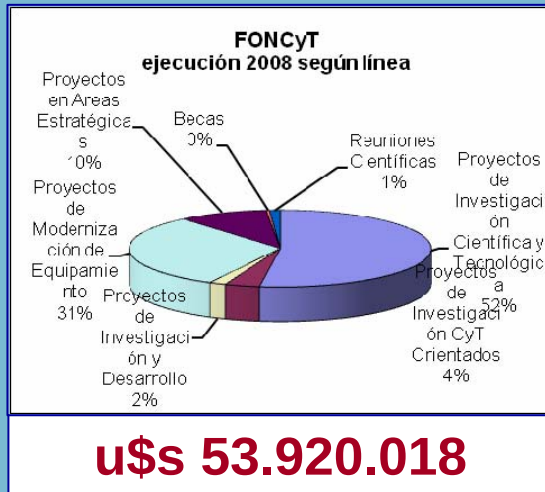
2293 research, technological development, and innovation projects

FUNDS	Approved Projects	Awarded Benefits (u\$s)
§ FONCyT	1407	u\$s 135.350.299
§ FONTAR	666	u\$s 94.071.910
§ FONSOFT	220	u\$s 5.142.540
TOTALS	2293	u\$s 234.564.749

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Paid Funds 2008



Sustained growth in **paid funds** has been verified in recent years, resulting in a duplication in execution from 2005 to 2008.

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Science and Technology Research Fund

FONCyT

Some achievements

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Consolidation of research and development capacities | FONCyT grants

PICT

Research projects in nonprofit public and private institutions.

Trained reseesearch | u\$s 30.000 / year

Young researches | u\$s 9.000 / year

PICT-SU

Research projects in nonprofit public and private institutions to establish a foundation for training new technology based enterprises.

u\$s 40.000 / year

PICT-O

Research projects in nonprofit public and private institutions on themes defined by common agreement with a "cosponsoring" institution

u\$s 30.000 / year

PID *(open window)*

Applied research projects -undertaken in nonprofit public and private institutions- whose results would be transferable to "Adopter" institutions or enterprises that cofinance the project

u\$s550.000 / total

PME

Modernization and Equipment projects for the purchase, installation, development, adaptation or construction in public and private laboratories and R&D centers

A: u\$s 200.000

B: u\$s 400.000

C: u\$s 600.000

PRAMIN

Upgrade infrastructure in public or private laboratories and R&D centers

u\$s100.000 / project

(max 3 for each institution)

PAE

Associated precompetitive research projects for strategic development of a field of knowledge on social or economic sectors identified in the S&T Plan

u\$s 3.000.000 / project

PRH

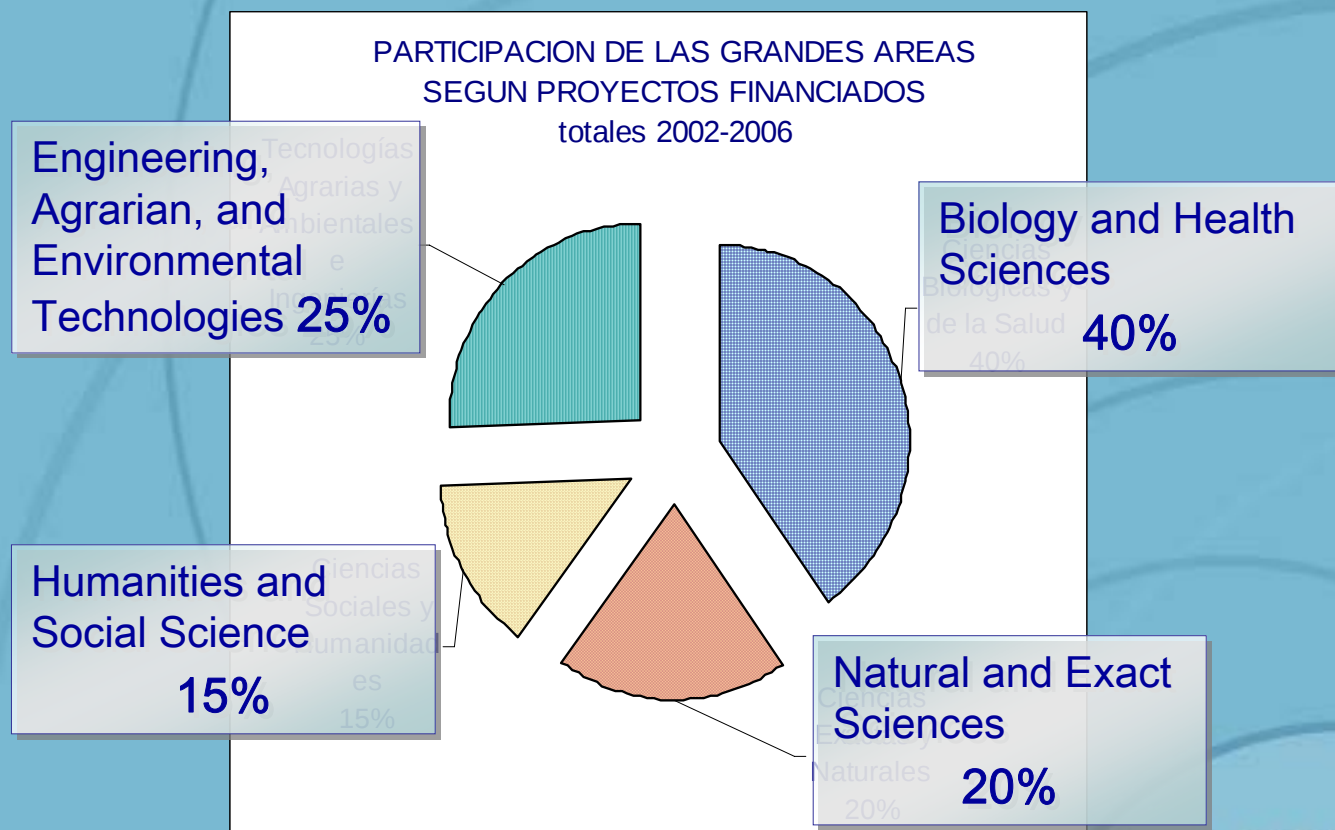
Institutional projects for Human Resources (researches repatriation and doctoral training)

u\$s 1.500.000 / PIDRI / Institution

u\$s 1.000.000 / PFDT / Institution

Science and Technology Research Projects PICT 2003 | 2008

Funded by disciplines



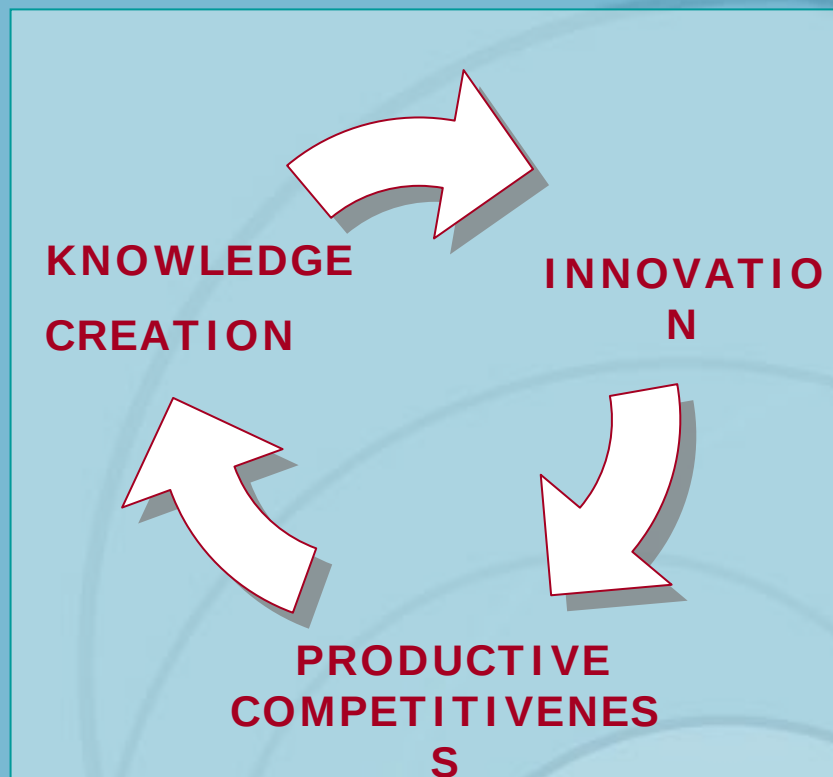
Data processed for **2748 subsidized projects**
In an aggregate of 5 annual calls for PICT projects (Cat. I y II) for a total ammount of u\$ 130.000.000-.



Knowledge Clusters

GOALS

- v R&D promotion aimed to the effective and innovative solutions of national productive problems
- v Public and private sector articulation.
- v Strengthening capacities in STi system.
- v Cathalsis of innovative processes in the productive sector.



TOTAL MAX. AMOUNT: u\$s 3 millions x
PAE

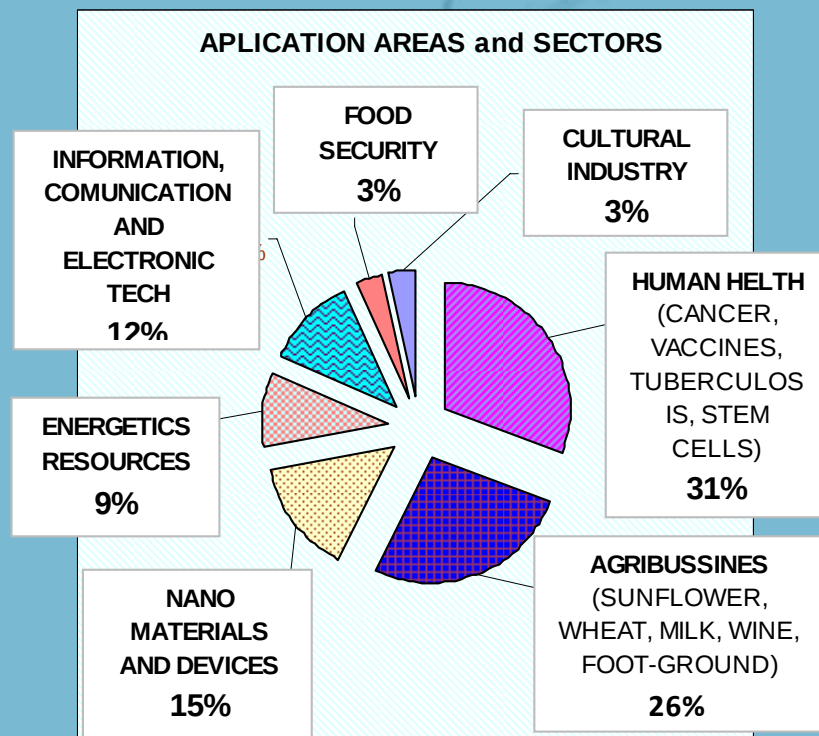




PAE | PROGRAM IN STRATEGIC AREAS

Total Awarded Amount in 2008: u\$s 30 millions

APLICACION AREAS and SECTORS



HUMAN HELTH (CANCER, VACCINES, TUBERCULOSIS, STEM CELLS)	US\$ 9.144.100
AGRIBUSSINES (SUNFLOWER, WHEAT, MILK, WINE, FOOT-GROUND)	US\$ 7.818.442
NANO MATERIALS AND DEVICES	US\$ 4.388.314
ENERGETICS RESOURCES	US\$ 2.715.276
INFORMATION, COMUNICATION AND ELECTRONIC TECH	US\$ 3.580.622
FOOD SECURITY	US\$ 991.852
CULTURAL INDUSTRY	US\$ 981.151
TOTAL	US\$ 29.619.757



Argentine Technology Fund

FONTAR

Some accomplishments

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To promote technological development in the private sector | FONTAR

OBJECTIVES	INSTRUMENTS	PROJECT TYPES	FINANCING CONDITIONS	MAX FINANCING TMP III
Technological modernization	CAE I	Technological modernization projects with high capital goods content.	Loans at market rate through IFIs that assume 100% of the credit risk	US\$1,000,000
	CAE II	Technological development projects involving capital goods and a higher proportion of intangible components	Loans at market rate through IFIs Up to 50% of the loan may be syndicated by FONTAR	US\$1,000,000
	CAE FT	Technological development projects with higher potential risk.	Market rate loans. Financing through a trust fund financed <i>pari passu</i> (50%) by FONTAR and by third party funds	US\$1,000,000
Technological innovation in small and medium-sized enterprises	NRC – PDT	Innovation projects	Nonreimbursable cofinancing (50% project cost)	US\$200,000
	NRC – Technological consulting	Technological consulting for groups of SMEs with common problems	Nonreimbursable cofinancing (50% project cost)	US\$75,000
	NRC – R&D laboratories in enterprises	Creation of R&D laboratories in enterprises	Nonreimbursable cofinancing (50% of researchers' wages for 4 years)	US\$200,000
	NRC - Patents	Financing of the patent application process to protect the intellectual property resulting from innovations arising in scientific and/or tech development projects	Financing up to 100% of the cost of filing patent applications	US\$75,000
Building capacity for providing technological services to the private sector	Reimbursable contributions to institutions	Projects to build technological capacity in nonprofit public and private institutions providing technological services to enterprises	Reimbursable financing (interest rate = IDB loan rate admini. costs)	US\$ 2,000,000

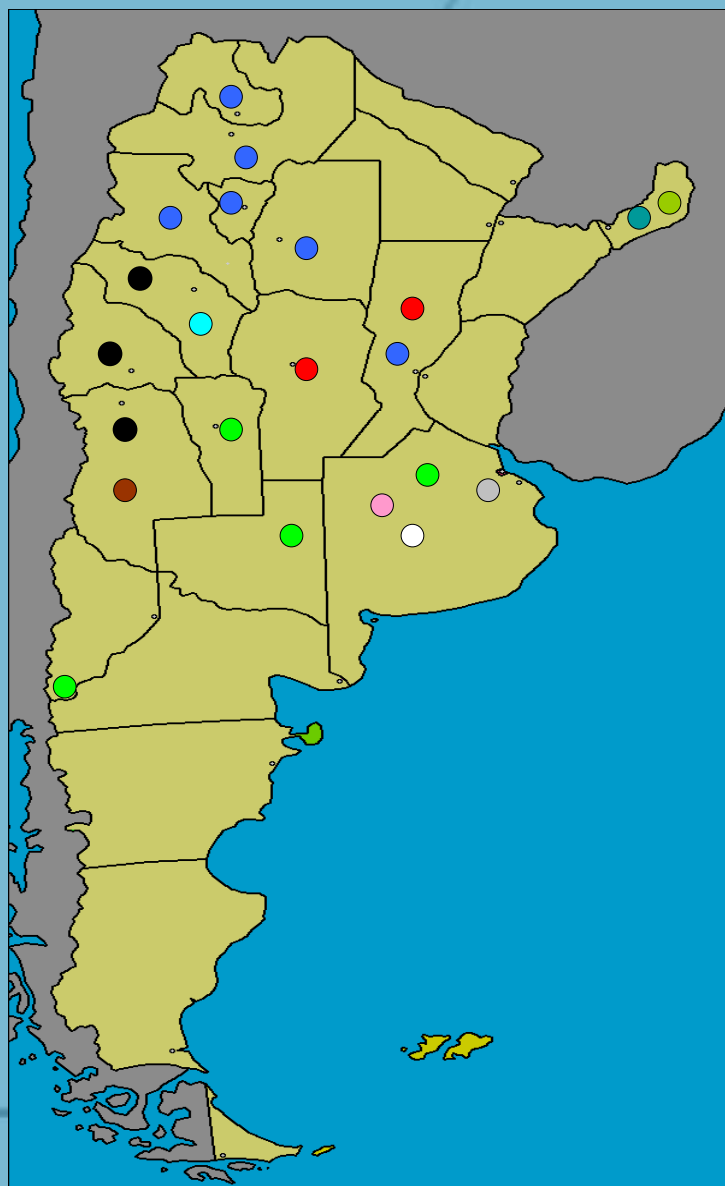
INTEGRATED PRODUCTIVE CLUSTERS PROJECTS | **PI-TEC**

PRODUCTIVE CLUSTERS are territorial concentrations of companies that show certain productive specialization in a common value chain amongst which common instances of analysis and prospection are development, cooperation links and associative initiatives. MAX FINANCING TMP III = **US\$ 4 Million**

PI-TEC FINANCING SUPPORTS THE PROMOTION OF NEW ACTIVITY FIELDS

- Associative investments to create or enlarge common technological services
- Cooperative projects in R&D
- Cooperative Projects in technical assistance
- Joint projects in absorption and diffusion of new technologies, training and development in design, etc.
- Promoting a cultura of intellectual property
- Establishment of technological "observatories"

PI-TEC approved in 2008: sectors and geographical distribution



u\$s 20,65 millions

- Grape and Wine
- Farm Machinery
- Forestry
- Agroindustrial (grape, olive and walnut)
- Pharmaceutical
- Metalmechanical
- Salmon
- Biofuels
- Tea
- Honey
- Prunes

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Agency finance for the
Agribusiness and Food
SECTOR
2003-2008

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Subsidized by **FONCyT** >>> **u\$s 30.094.400-**



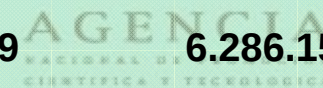
Investigaciones financiadas
por FONCyT aplicadas al
sector **Agroindustria**
2003-2008

Línea	Cantidad Proyectos	Monto Total Subsidiado (u\$s)
AREAS DE VACANCIA	10	1.248.615
PICT (Investigación Científica y Tecnológica)	169	9.440.626
PICT-Orientados (ASAGIR / UNFor / EEAOC / Forestal)	32	1.373.009
PID (Investigación y Desarrollo)	18	1.141.575
EQUIPAMIENTO	21	2.785.980
AREAS ESTRATÉGICAS	7	7.818.442
TOTALES	257	23.808.247



Investigaciones financiadas
por FONCyT aplicadas al
sector **Alimentos**
2003-2008

Línea	Cantidad Proyectos	Monto Total Subsidiado (u\$s)
AREAS DE VACANCIA	-	-
PICT (Investigación Científica y Tecnológica)	92	4.650.012
PICT-Orientados (ASAGIR / UNL / UNSur / UNTuc / UNQui)	15	344.289
PID (Investigación y Desarrollo)	-	-
EQUIPAMIENTO	1	300.000
AREAS ESTRATÉGICAS	1	991.852
TOTALES	109	6.286.152





Subsidized projects in the Agribusiness and Food Sector

Strategies for molecular marker- assisted selection for the development of wheat germoplasm



PID 2005 N° 36195 □ IR: PFLUGER, Laura
UNIDAD EJECUTORA: Centro de Investigación de Recursos Naturales - EEA Castelar □ INTA
ADOPTANTES: Criadero Klein S.A. □ Buck Semillas S.A. □ Asociación de Cooperativas Argentinas Coop. Ltda

The production of inoculants to improve implantation and production of sunflower crops



PICT 2007 N° 1808
CATEGORIA START UP
IR: ABDALA, Guillermina Irene
UNIDADES EJECUTORA: Depto. de Ciencias Naturales
FCEF - UNIVERSIDAD NACIONAL DE RIO CUARTO





Associative Projects **PAE**



Genomic and metabolomic approaches to the sustainable handling of soils in agricultural activities and bioprospection of genetic resources with the goal of biotechnological use

u\$s 1.741.218

PAE 2006 N° 37164 □ IR: MENTABERRY, Alejandro N.
 ASOCIACIÓN AD-HOC: UBA (Facultad de Agronomía) □ UN La Plata (Facultad de Cs. Exactas) □ UN Quilmes (Centro de Estudios e Investigaciones) □ INTA □ INST. AGROBIO-TECNOLGIA ROSARIO □ AAPRESID □ CONICET (INGEBI)





Associative Projects **PAE**

Integrated national system for the prevention of mycotoxins in food chains (grains)



u\$ 1 million

PAE 2006 N° 37046 □ IR: CHULZE, Sofia Noemí
 ASOCIACIÓN AD-HOC: UN Río Cuarto - UN Litoral - UN
 Rosario - UN Tucumán - UN La Plata - INTI - ANMAT –
 INTA - SENASA - CEC (Centro de Exportadores de
 Cereales) - CIARA (Cámara de Industria Aceitera de la R.A.)





Associative Projects **PAE**

The contribution and insertion of
genomics in the development of
the agribusiness bovine milk chain



u\$s 1 million

PAE 2006 N° 37143 □ IR: POLI, Mario Andrés
ASOCIACIÓN AD-HOC: ASOCIACIÓN AD-HOC: INTA □
CONICET (CERELA) □ FUNDACIÓN POTENCIAR □ LAS
TAPERITAS S.A. □ MUNICIPALIDAD DE RAFAELA



Financed by **FONTAR** >>> **u\$s 23.461.327-**

Proyectos y montos aprobados del Sector Agroalimentos 2003-2008

Región	Proyectos	%	Monto FONTAR (en pesos)	%
Cuyo	58	30%	22.001.845	27%
Bonaerense	52	27%	24.115.052	29%
Centro	30	15%	16.326.122	20%
NOA	23	12%	4.211.306	5%
NEA	20	10%	10.419.962	13%
Patagonia	8	4%	1.560.460	2%
N/I	3	2%	3.479.908	4%
Total	194	100%	82.114.645	100%

N/I: No Informa

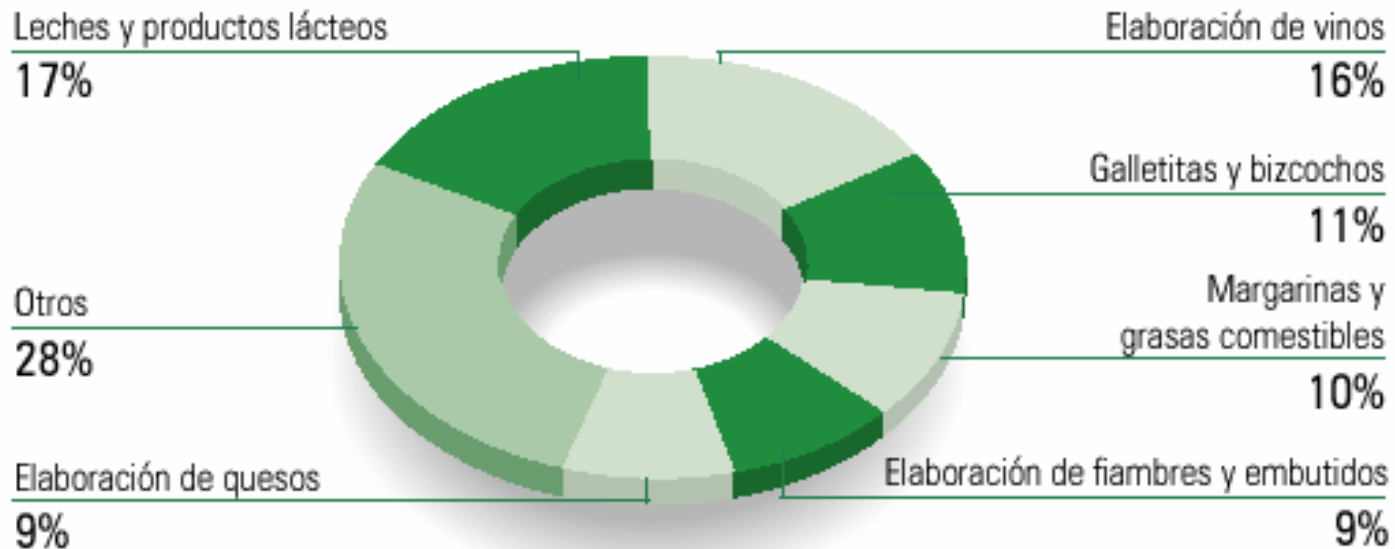
Tipo de Beneficio	Proyectos	%	Monto FONTAR (en pesos)	%
Subsidio	75	39%	8.254.779	10%
Crédito	74	38%	63.193.034	77%
Crédito Fiscal	45	23%	10.666.841	13%
Total	194	100%	82.114.654	100%



• CREDITS FOR BUSINESSES (CAE)

CAE is oriented to consolidate technological modernization processes in businesses in the manufacturing and primary sectors.

Principales sectores financiados a través de CAE 2003-2008



Boletín Estadístico Tecnológico (BET) / MINCyT / 2009



- Subsidies to innovative SMBs**

During the first six months of 2008, FONTAR subsidized about 47% of total cost of each project.

Distribución de proyectos aprobados 2008, pertenecientes al área Alimentos y Bebidas (CIU Rev. 3)





Subsidized Projects in Agribusiness and Food

Obtención de plantas de interés agronómico tolerantes a stress hídrico y salino



Foto gentileza INTA



Innovar en el campo de la biotecnología a partir de construcciones genéticas alternativas permitirá que determinadas plantas soporten condiciones ambientales riesgosas, disminuyendo así los riesgos de la actividad agropecuaria.

Proyecto FONTAR. ANR REG.

Empresa: Bioceres S.A.

Responsables: Dra. Raquel Chan; Dr. Miguel A Lucero; Mariana I Giacobbe.

Instituciones relacionadas: Universidad Nacional del Litoral; CONICET; Bioceres S.A.

Preinoculación de semillas de soja

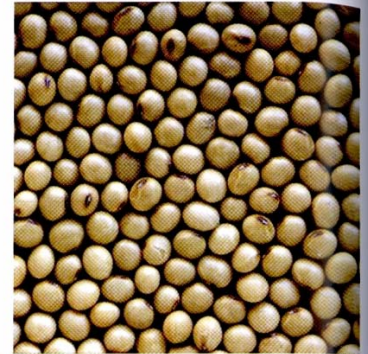


Foto gentileza INTA

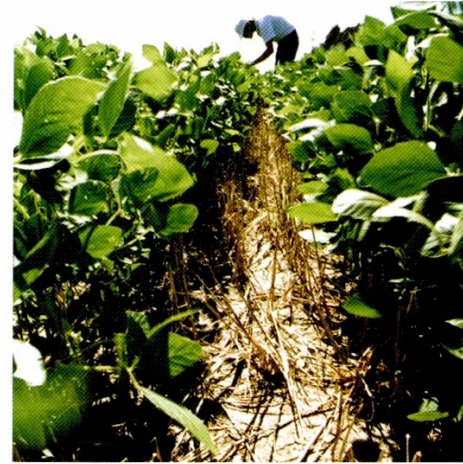


Foto gentileza INTA

Una innovadora tecnología de preinoculación de semillas de soja que cambiará el mercado de comercialización de inoculantes a nivel nacional e internacional.

Proyecto FONTAR. ANR 300.

Empresa: Síntesis Química SAIC

Director: Dr. José Luis Boiardi CINDEFI

Vice Director: Ing. Carlos H. Bonfiglio (Síntesis Química S.A.)





Tucumán, Jujuy, Salta, Catamarca,
Santa Fé, Santiago del Estero



PI TEC TU 001

Competitive Cluster of the Honey Industry NW Argentina Central Andine

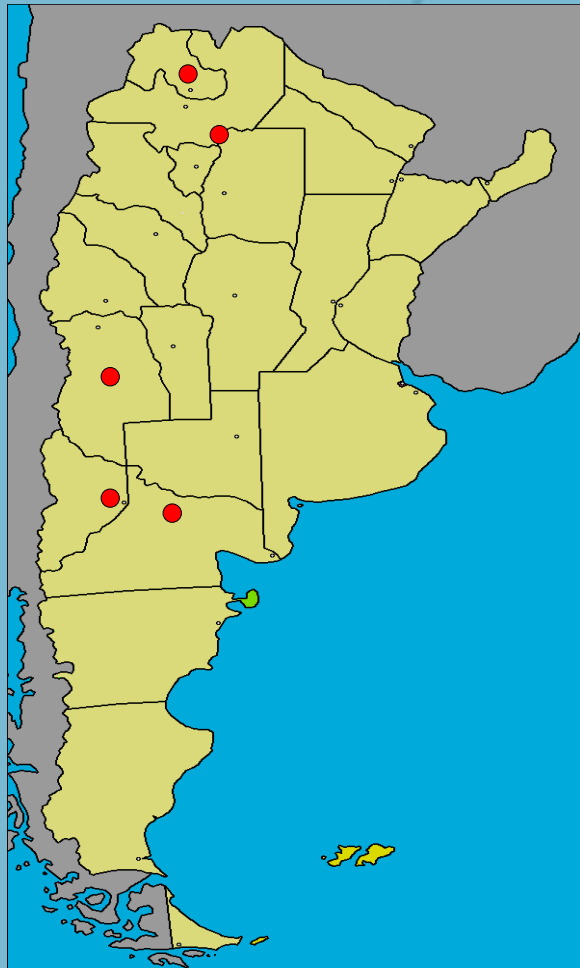


Financed by FONTAR: u\$ 1.996.914





Jujuy, Salta, Mendoza, Río Negro, Neuquén



PITEC NA 001

Integration Program for the Winemaking Conglomerate in the Andine Region



Financed by FONTAR
u\$s 2.002.785

