



fondazione
c a r i p l o



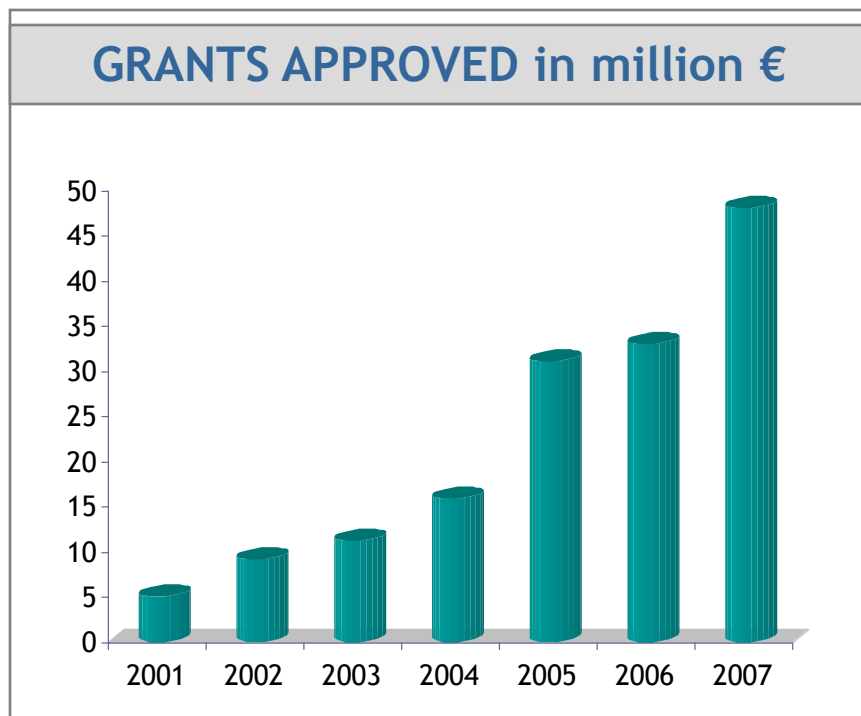
Fondazione Cariplo

Carlo Mango
Scientific Research and TT Department

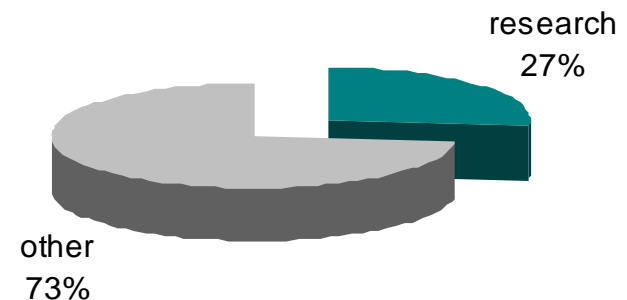
2009, 3rd December

The Scientific Research Department

Facts & Figures



In the last years, Fondazione Cariplo has significantly increased funding in the Research sector: grants totalling **48 million €** - corresponding to 27% of total grants - were approved **in 2007**.



Based on this Fondazione Cariplo is ranked among the top private financing bodies both at regional and national level.

The Scientific Research Department

Facts & Figures

We can rely upon:

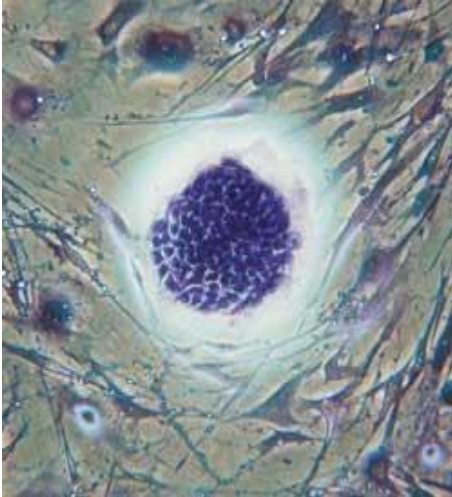
- a Strategic Planning Board (The Committee Scientific Research) working on a continuous basis (monthly meetings)
- foresight studies in collaboration with the staff of the Strategic Unit for Philanthropy
- 7 members of the staff
- international peer review
- *in itinere* monitoring of granted projects (scientific and administrative assessment)
- web based grant system
- scientific community involvement
- networking with institutions and key actors in the research funding

Work in progress on :

- *ex-post* evaluation of our Projects and Programs
- improvement of peer review methods
- networking at international level

The Scientific Research Department

The priorities



MATERIAL SCIENCE



HUMAN CAPITAL

BIOMEDICINE



AGROFOOD



The Scientific Research Department

Biomedicine (1/4)

Action Plan

To increase the level of scientific excellence of biomedical research teams by funding research projects with a strong impact on the international scientific community

Tools

Call for Proposals Project	<i>“Scientific Research in Biomedicine”</i> <i>“NOBEL - Operative Network for Biomedicine Excellence in Lombardy”</i>
Call for ideas	<i>“Innovative Vaccine for the infectious diseases”</i>

The Scientific Research Department

Biomedicine (2/4)

CfP	“Scientific Research in biomedicine”
Published	2008: 7th edition (first year of publication: 2002)
Deadline	Fixed deadline CfP (ed. 2008: april 2008)
Budget	€ 8.000.000
Figures	<p>≅ 200 grant requests per year</p> <p>≅ 30 projects funded per year</p> <p>Average grant per project: € 300.000</p> <p>Co-financing by applicants: 50% of total costs</p> <p>1 International Scientific Committee with 15 referees</p>
Goals	<ul style="list-style-type: none">• To support basic research projects conceived in a multidisciplinary manner and aimed at the identification and comprehension of the molecular basis of the diseases• To encourage the collaboration among various research organisations and the integration of their respective resources in terms of competences, human capital and equipment (mandatory partnerships)

Project	NOBEL - Operational Network for Biomedicine Excellence in Lombardy
Goals	<ul style="list-style-type: none">• To invest in already existing research centres of excellence (valorisation)• To promote the collaboration among various institutions and research groups, based on common projects• To favour the professional growth of young and promising scientists within multidisciplinary projects
Figures	<ul style="list-style-type: none">• 7 technological platforms• 7 networks activated• 27 partners• 12,774 million € approved grants
Partners	<ul style="list-style-type: none">• 7 Universities (Lombard territory, Ferrara, Trento)• 20 research centres and institutions in Lombardy
Phases	<ul style="list-style-type: none">• Phase 1 - Evaluation of the submitted project proposals• Phase 2 - Funding and implementation of the selected platforms• Phase 3 - Dissemination of the results achieved and of the available technologies
Budget	€ 18.250.000 (of which FC € 12.774.000)

The Scientific Research Department

Biomedicine (4/4)

CfP	“Innovative Vaccine for the transmissible diseases”
Goals	To support innovative approach for the development of novel vaccines to be used in the prevention of infectious diseases, by the funding of fundamental research aimed to cover the knowledge gaps in our comprehension of the immune system and the biology of the pathogens
Phase I	Explorative phase: <ul style="list-style-type: none">• Call for ideas with the aim of collect data about the research groups active in the field, their relationship at the international level, the approaches they can pursue, the budget required• Selection of the most innovative ideas by a Peer Review Committee
Phase II	Call for full proposals, reserved to the most innovative ideas selected in the first phase
Phase III	Call for proposals at national level Partnership with other funding agencies
Budget	To be defined on the basis of the exit of the I phase

The Scientific Research Department

Enabling Technologies (1/4)

Action Plan

To foster knowledge by funding emerging technology projects with the potential to yield major innovative applications

Tools

Call for Proposals	<i>“Scientific and technological research on advanced materials”</i>
Call for Proposals	<i>“Promotion of international projects aimed at the recruitment of young researchers”</i>
Project	<i>“AGER - Agro food and Research”</i>

The Scientific Research Department

Enabling Technologies (2/4)

CfP	“Scientific and technological research on advanced materials”
Published	2008: 6th edition (first year of publication: 2003)
Deadline	Fixed deadline CfP (ed. 2008: april 2008)
Budget	€ 5.000.000
Figures	<p>≅ 50 grant requests per year</p> <p>≅ 20 projects funded each year</p> <p>Average grant per project : € 165.000</p> <p>1 International Scientific Committee with 8 referees</p>
The Problem	Endemic shortcoming of funds dedicated to pre-competitive research in favour of social and economic growth of our region
Goals	To support a limited number of research projects within the field of materials science, deemed to be determinant for the development of the economic-industrial system in Lombardy, considering the transversal nature of its practical knock-on effects (microelectronics, biomedical, energy)

The Scientific Research Department

Enabling Technologies (3/4)

CfP	“Promotion of international projects aimed at the recruitment of young researchers”
Published	2008: 5th edition (first year of publication: 2004)
Deadline	Open deadline CfP
Budget	€ 2.500.000
Goals	<ul style="list-style-type: none">• To foster the creation of attractiveness conditions by the scientific research system in Lombardy, through the realization of projects of excellence• To promote the detachment of prominent foreign researchers and the growth of young researchers’ teams in our region• To generate a clear impact on the research system, through the support of a limited number of initiatives that provide for important medium-term knock-on effects
Intervention sectors	<ul style="list-style-type: none">• Advanced materials• Non medical biotechnologies• Regenerative medicine

The Scientific Research Department

Enabling Technologies (4/4)



Project

“AGER - Agro food and Research”

Goals

- To activate a network of collaborations among foundations aimed at supporting common research projects in the agro food field
- To consolidate the scientific collaboration among universities and research centres that operate already in the intervention areas of the foundations
- To seal the territorial vocation of the local industrial fabric, through innovation, scientific research and human capital of excellence
- To offer a grant-making tool with a “critical mass” allowing to concretely affect the agro food sector

Phases

1. Creation of the group of foundations involved in the initiative and definition of the project governance
2. Design of joint initiatives
3. Management of joint initiatives

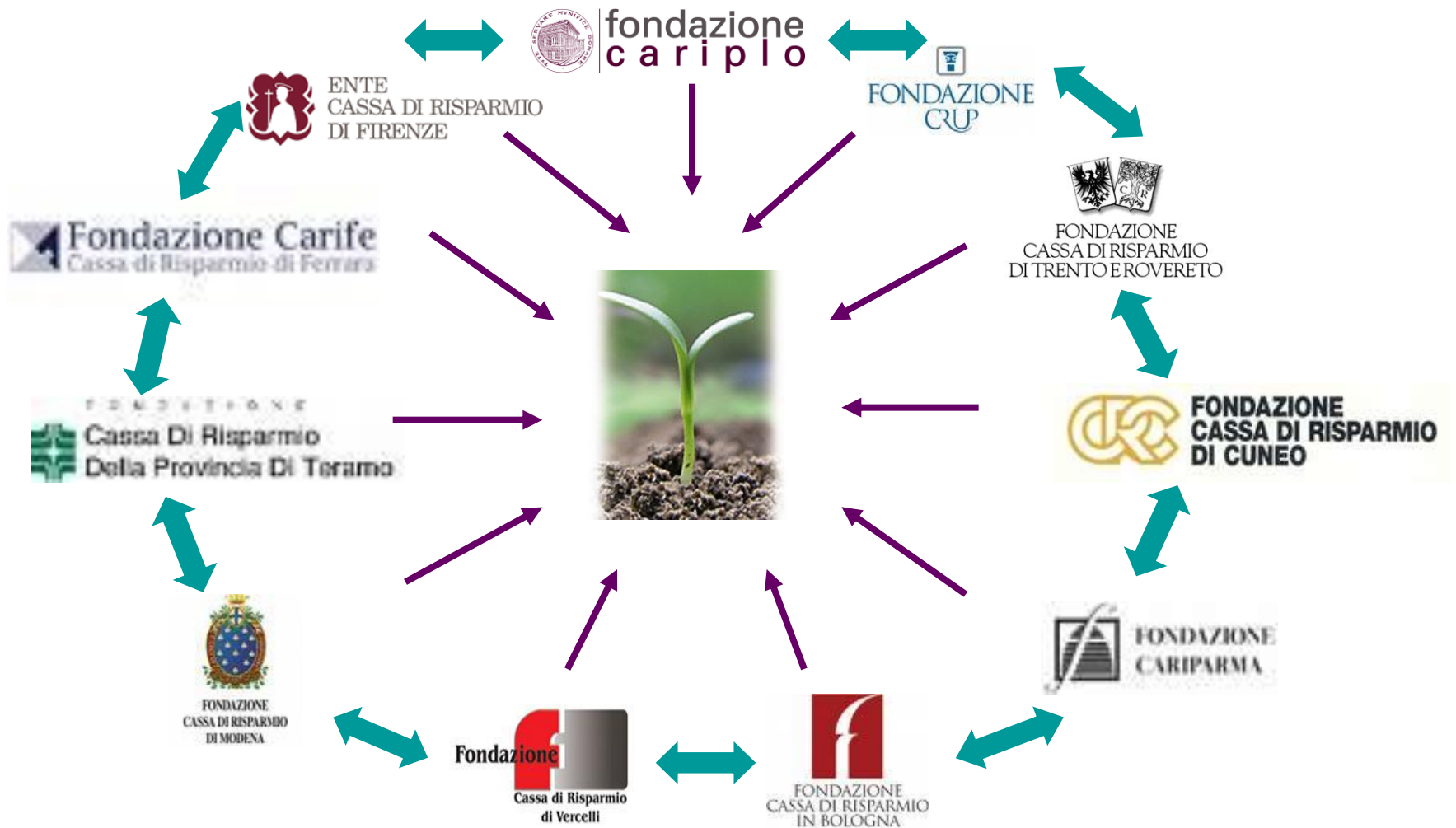
Partners

13 Italian Banking Foundations
Fondazione Cariplo (lead partner)

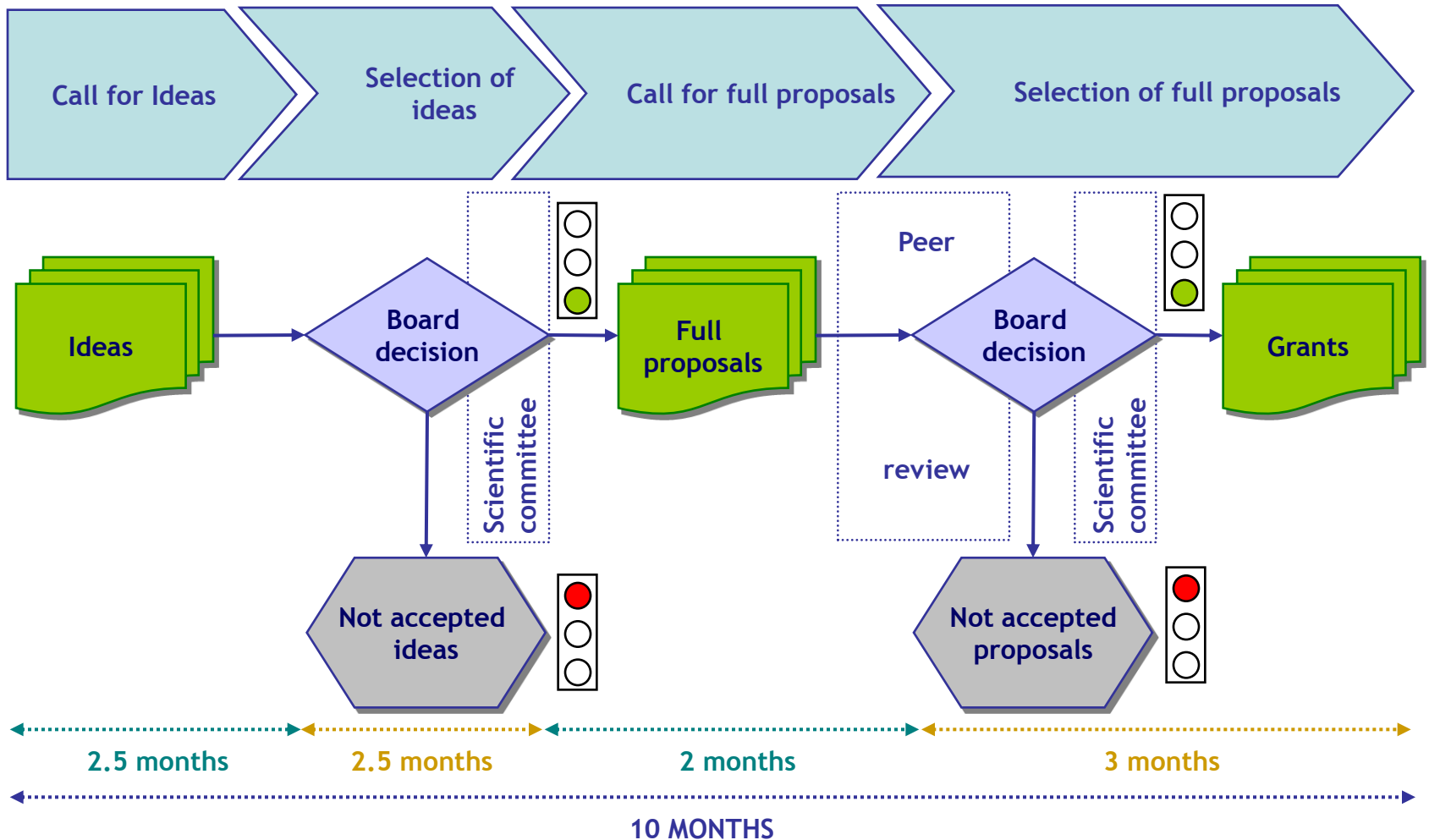
Budget

€ 27.000.000 (over 3 years)

AGER Partners



AGER *ex ante* evaluation



The Scientific Research Department

Human Capital (1/2)

Action Plan

To improve the quality of training schemes and the internationalization of the local Universities

Tools

Call for Proposals *“To promote the creation of Human Capital of Excellence”* reserved to 13 the local Universities

The Scientific Research Department

Human Capital (2/2)

CfP	“To promote the creation of Human Capital of Excellence”
Published	2008 (first year of publication : 2006)
Deadline	Fixed deadline CfP (ed. 2008: april 2008)
Budget	€ 5.000.000
Grant/project	€ 250.000
The Problem	<ul style="list-style-type: none">• Deep transaction by the academic world characterized by receptivity to the valorisation of the research findings and the support of the local economic development• Research expenditure constantly lower than that of other European countries and training paths (especially post-degree) scarcely competitive in the international scenario and of limited use in the labour market
Goals	<ul style="list-style-type: none">• To support the creation of human capital of excellence by financing original and innovative projects with “best practices” potential• To favour the training of Italian high profile graduates, able to compete in the international labour market• To attract to Italy the best foreign youth, intended to carry out their academic studies abroad
Special marks	CfP dedicated to the 13 universities located in the FC intervention territory

The Scientific Research Department Special Project in TT



Project	TT Venture
Context	<ul style="list-style-type: none">Italy is characterized by a high level of excellence in scientific research and systematic insufficient funds dedicated to this sectorTT Venture is the first Italian mutual fund dedicated to technology transfer
Goals	<ul style="list-style-type: none">To reduce the gap between research centres, companies and investors, by supporting the development of high potential entrepreneurial project within the fields of biomedicine, Advanced materials, agrofood, and clean tech
Key features	<ul style="list-style-type: none">Well structured and independent process of investments' analysis and selectionKey factors of the appraisal process: Intellectual Property and innovation analysisFoundations Network: expertise in R&D funding and deal flow generatorStrong institutional profile: LT investment horizon, expected return > 10% per annum (a rate which compensates the investors for the financial risk embedded)
Investors (july 2008)	Fondazione Cariplo, Cariparma, Fondazione di Teramo, Fondazione di Modena, Fondazione di Cuneo, Fondazione di Forlì, Camera di Commercio di Milano
Fund Raising (july 2008)	€ 60.000.000

Thank You

Carlo Mango

Head of Scientific Research and TT Department

Fondazione Cariplo

Via Manin, 23

20121 Milan

Italy

T +39 02 6239.309

Fax +39 02 6239.325

e-mail: carlomango@fondazionecariplo.it

www.fondazionecariplo.it