





Measuring the intangible role of a Development Bank – BNDES case

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Information and Knowledge for All: *Towards an Inclusive Innovation*

The World Conference on Intellectual Capital for Communities

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Rationale for and definition of national development banks

Intellectual Capital for Communities In the Knowledge Economy

- "At the national level, development banks can be instrumental not only in addressing market failures, such as the lack of provision of long-term finance due to the risks and uncertainties involved, but as a critical tool in supporting a proactive development strategy" UNCTAD 2016
- The focus should be on financing projects where the social returns are greater than private returns ; or
- projects that promote Economic Transformation.

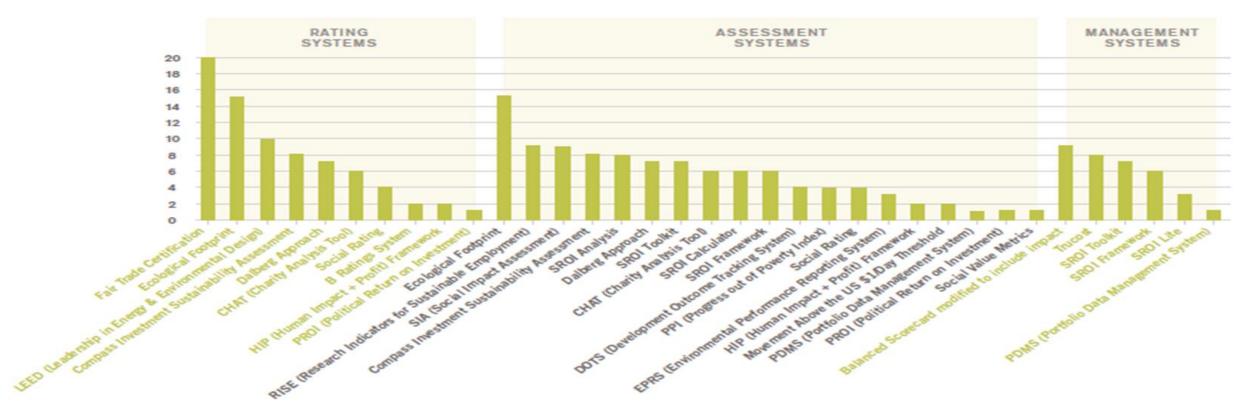
But how to identify and measure those characteristics in a project?

Different approaches to Impact Measurement

Intellectual Capital for Communities In the Knowledge Economy

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iC



Olsen & Galimidi (2008) – Catalog of Approaches to Impact Measurement (Rockfeller Foundation)

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International References



Ex Post-Evaluation Brief Brazil: Natural Resources Policy Project (NRPP)

KFW

UELA	Sector	41010 Environmental po management	licy and administrative
	Project/Client	Natural Resources Policy	y Project (1995 65 243)*
Brazil	Programme execut- ing agency	Ministerio do Meio Ambie	ente (MMA)
	Year of sample/ex po	st evaluation report: 201	13/2013
UVIA Brasilia		Appraisal (planned)	Ex post-evaluation (actual)
PARAGUAY	Investment expenses	EUR 64.2 million**	EUR 58.4 million
URUGDAY	Own contribution	EUR 9.3 million	EUR 7.8 million
	Third-party contri- butions	EUR 34.45 million	EUR 36.8 million
	FC funds	EUR 20.45 million	EUR 13.8 million

Short description: The Natural Resources Policy Project (NRPP) was part of the international pilot programme to conserve the tropical forests in Brazil (PPG7). It was carried out between 1996 and 2009 under the auspices of the

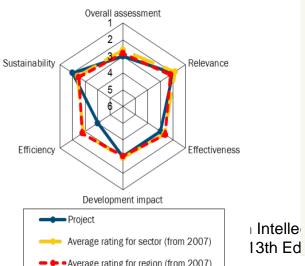
Overall rating: 3

The programme has made an important contribution to decentralising environmental policy and enhancing the capabilities of state-level environmental authorities. A particularly positive aspect of the programme is its sustained effect: virtually all the measures initiated under the scope of the programme are continued. Programme weaknesses were particularly evident in the area of efficiency.

Of note:

Almost all persons interviewed stressed the importance of the programme. The lessons learned in the programme – positive and negative – reportedly played a particularly prominent role.

Rating by DAC criteria



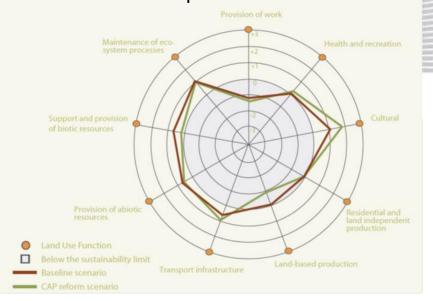
PWC - Total Impact Measurement and Management

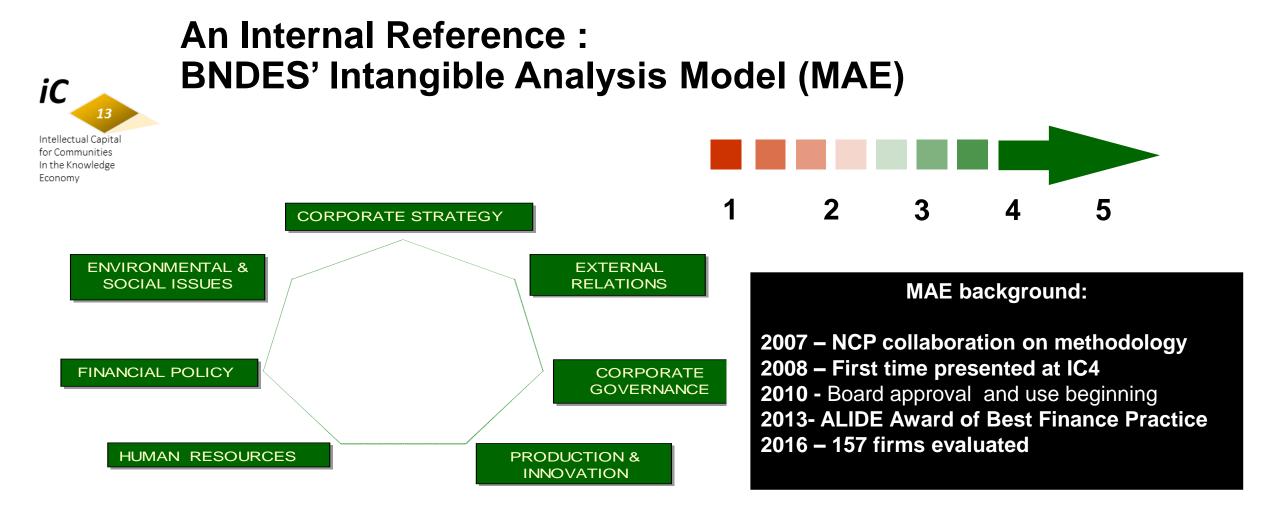


European

Commission

SIAT – Sustainability Assessment Toll European Commission





Questions answered by bank staff, based on a collaborative process and IT support.

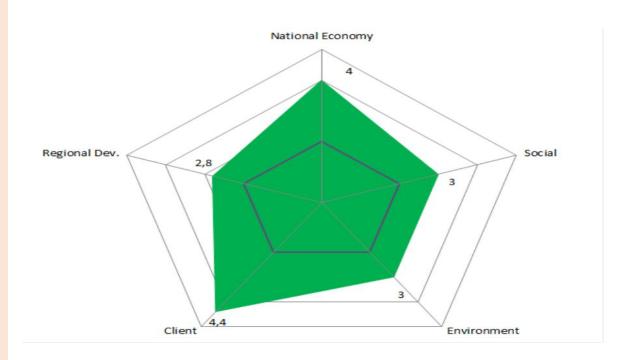
Use for client's management improvement and for BNDES' credit risk

The BNDES Impact Thesis - TIIP

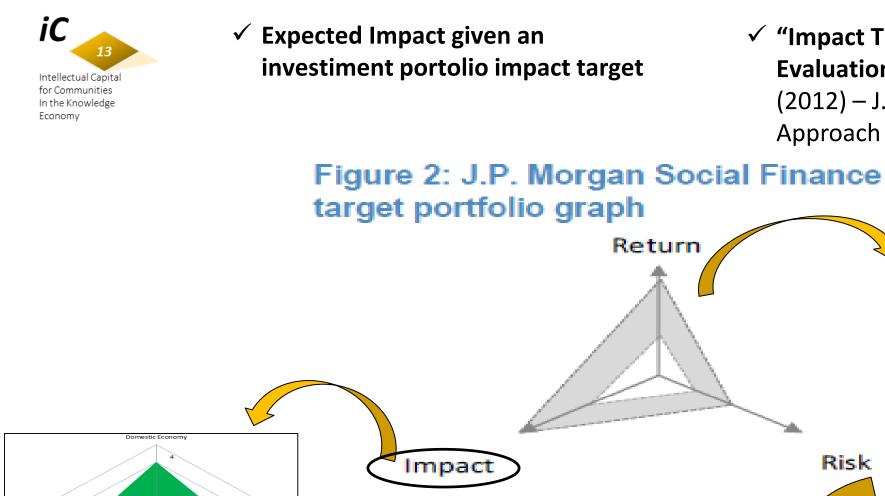


TIIP is a multi-criteria method to evaluate the non-financial features of funded projects

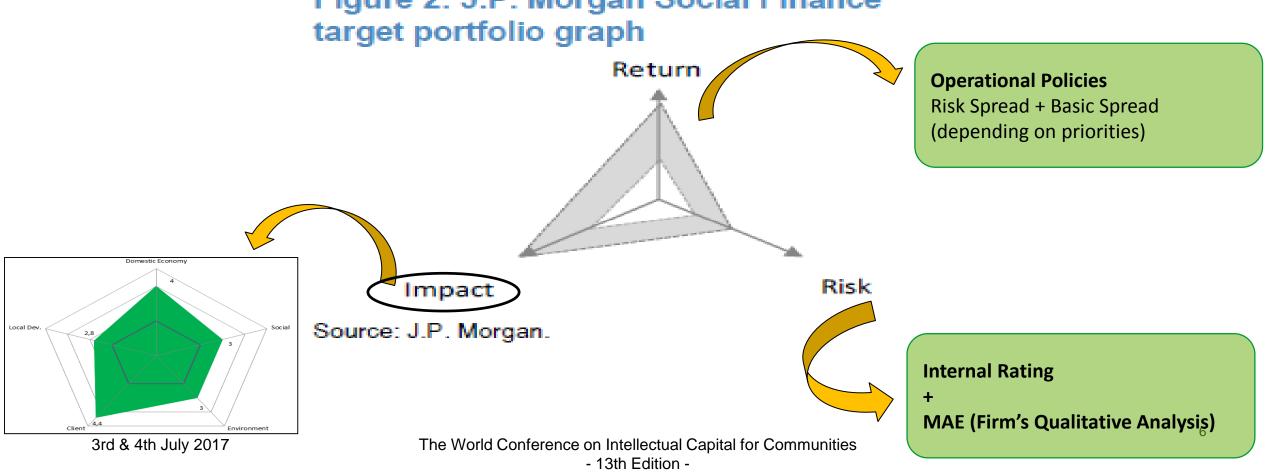
- Support Decision → Ex-ante evaluation .
 BNDES' can improve its priorities practices
- Social Return and Benefits: Metrics to infer it in a regular and a comparable basis
- Internal and External Transparency: an "Easy to Read" Tool
- **Communication**: Post the picture at the website together with the project's basic info.



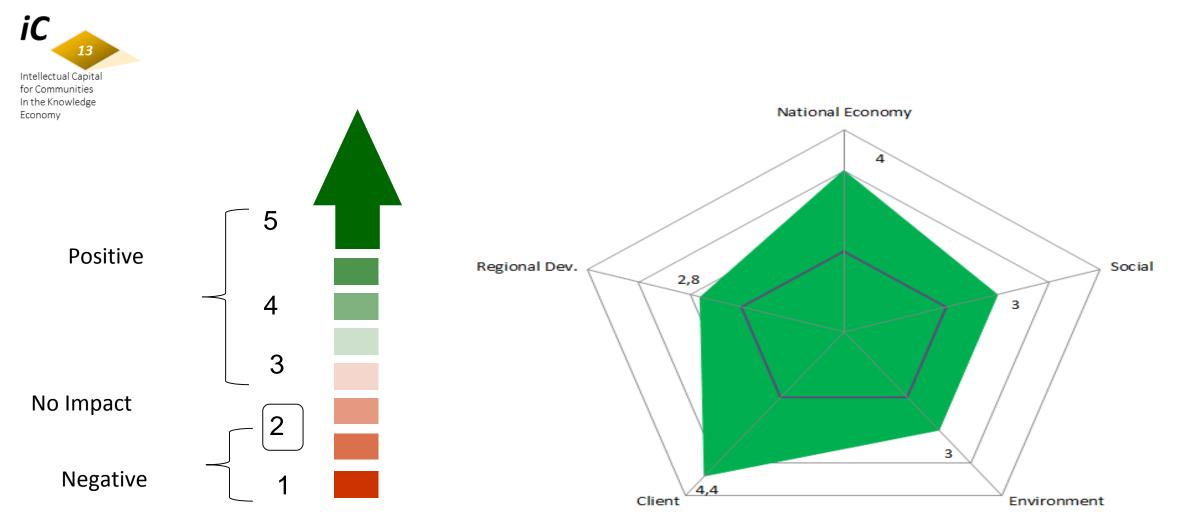
Adapting JP Morgan' framework to BNDES' Procedures...

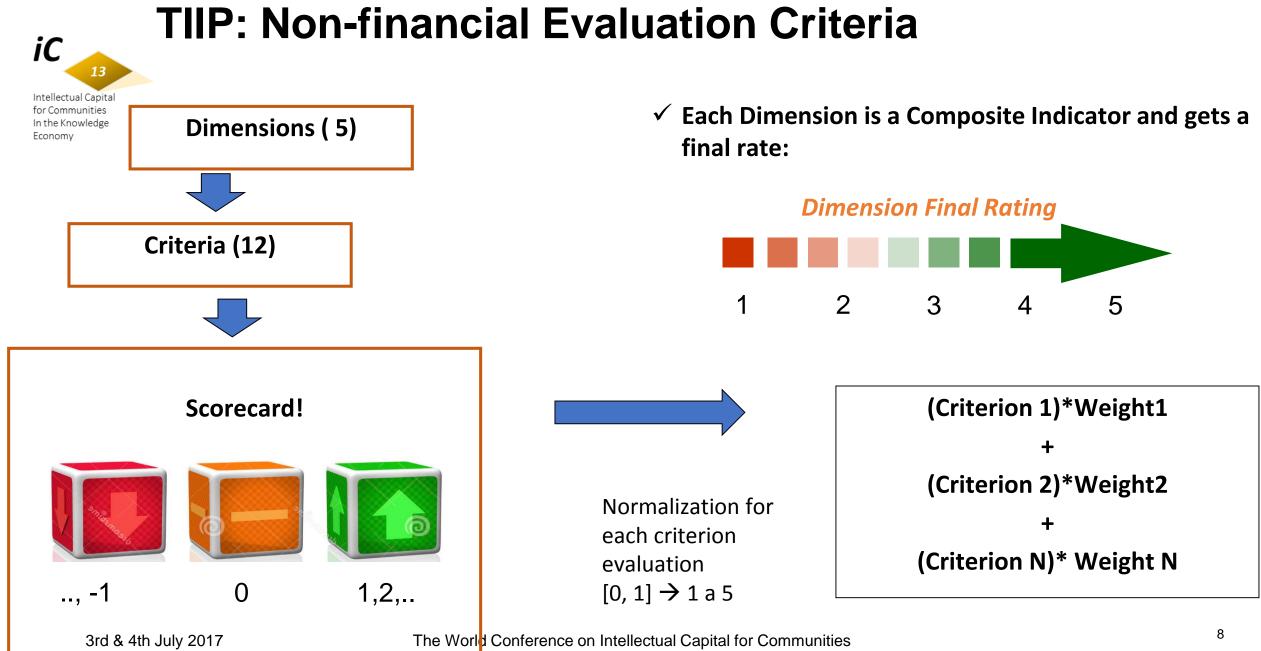


✓ "Impact Thesis" – Ex-ante **Evaluation:** Shown by Saltuk & Idrissi (2012) – J.P. Morgan. "A Porfolio Approach to Impact Investment"



BNDES'S TIIP





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TIIP: Type of Criteria

✓ 12 Criteria to identify expected impacts among those 5 five dimensions

Environment



1. Negative Impacts and Positive Benefits

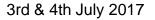
- Use of natural resources
- Gases Emissions
- Ecosystems

Regional Development

- 1. Local Positive and Negative Economic Impacts
- 2. Local Spillovers (current development status as a proxy)

Social 1. Job creation 2. Well-being: Negative Impacts and Positive Benefits ✓ Social Infrastructure (housing, sanitation, public transport); ✓ Basic Services (health, education, education, education)

- Basic Services (health, education, public management, safety)
- ✓ Inequality / poverty
- ✓ Traditional Communities



TIIP: Type of Criteria Intellectual Capital for Communities Inter Knowledge Economy National Economy	
 Innovation: Efforts and Results Exports Economic Complexity, Supply and Productivity Supply Chain Knowledge and Education Infraestructure Supply 	 Client 1. Competitiveness 2. Intangible Assets improvement (management)

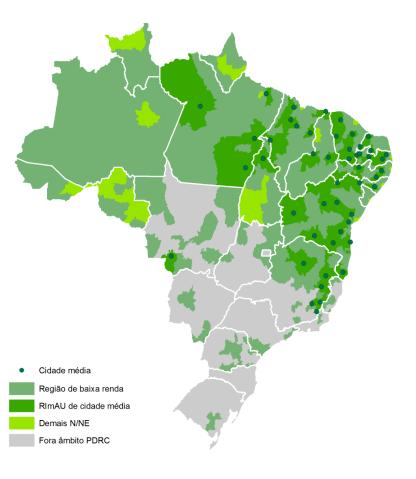
Regional Dimension and related criteria for impact evaluation

Intellectual Capital for Communities In the Knowledge Economy

Aim to evaluate the project impacts on the attraction and retention of people and new economic activities to the region (local spillovers) and the impact on reduction of regional inequalities (current development status as a proxy).

BRAZIL

- High territorial inequality. Population and GDP are concentrate at Center-South axis.
- The outskirts regions represent 53% of cities, 42% of population and 22,4% of GDP.
- *Gini Index = 51.48 (2014), 10^o country with higher inequality*
- 40% of innovative companies are located in São Paulo





Regional Impact: examples of real projects in Northeast Region of Brazil

- Car manufacturing new plant
- Wind power plant

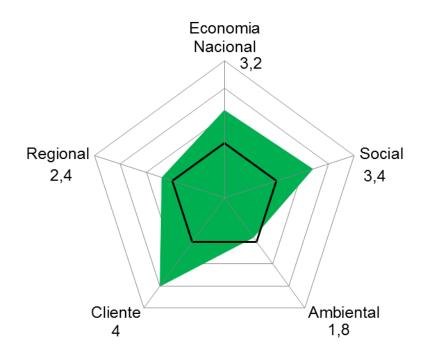


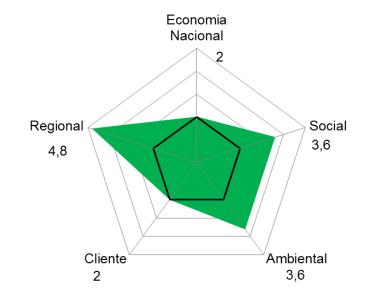


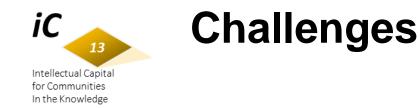
Regional Impact: examples of real projects in Northeast Region of Brazil

Pharmaceutical new plant

Sanitation facilities and services







- ✓ Exchange Knowledge: Finding external experiences and cases to improve the methodology and its applying process (banks, universities, governments, etc.)
- ✓ How to exploit this methodology to increase public transparency
- ✓ Finding statistics and sectorial indicators to support the scorecard analysis (eg.: job creation, productivity, etc.)
- ✓ Turning the TIIP into a qualitative, but less subjective, project selection analysis tool.