



***The Use of Technologic
Development Fund in Ten
Years of the Federal Road
Concession Program in Brazil***

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1-Introduction

Federal Highways- BR- Jurisdiction of DNIT

Investments in Highways by the Brazilian govern (R\$1995)

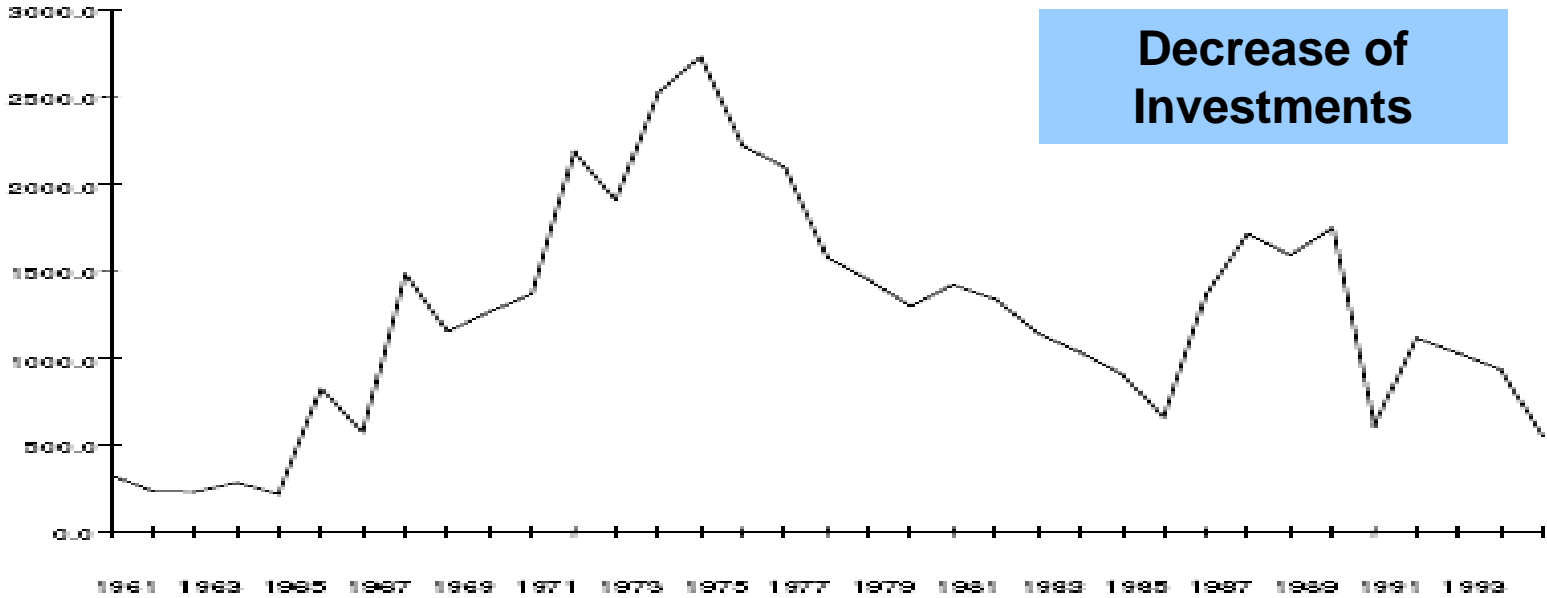


Gráfico 3: Evolução dos investimentos em rodovias federais (1961-1995)
Fonte: GEIPOT 1970/1995 e Relatório Anual do DNER 1970-1985



1-Introduction

1995- 1st. Privatization Process → Rio-Niteroi Bridge

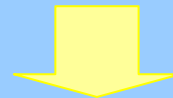
Until 1998 - 6 Highways sections

Model of privatization (+-25 years):

Transfer -

Recovery – Operation

- Transfer



Contractual Exploration Program

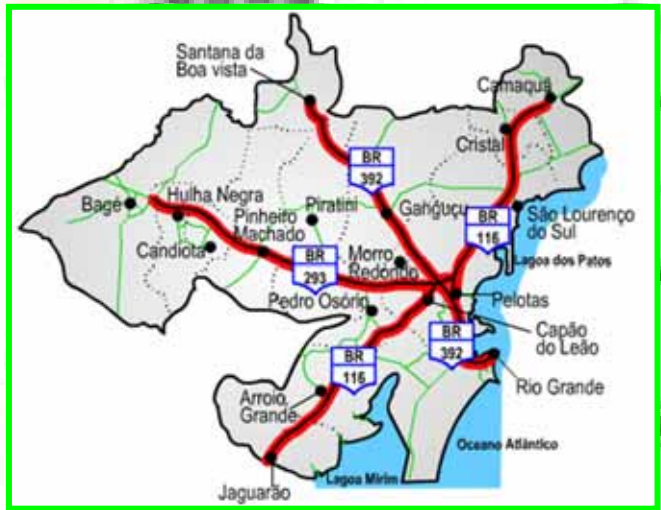
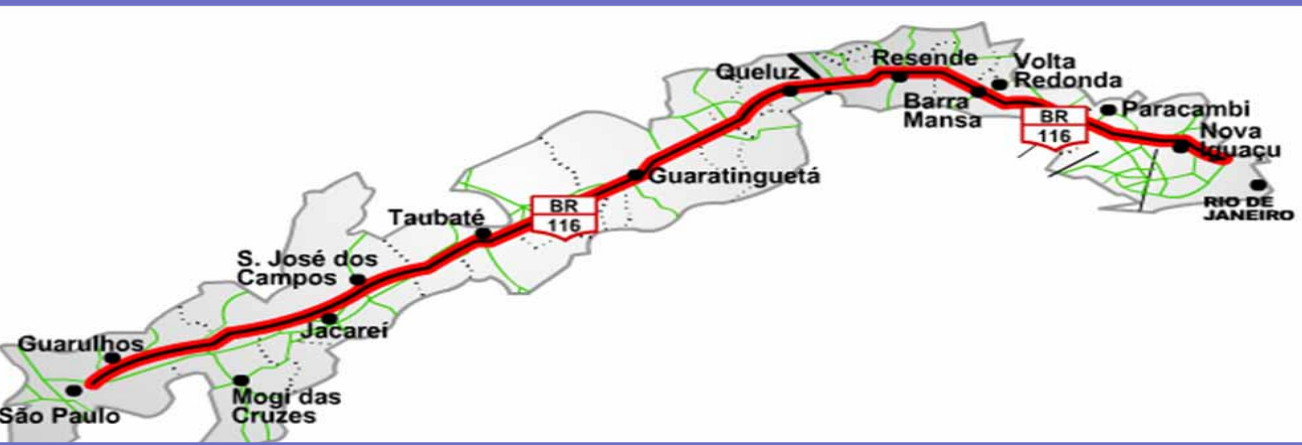
Research Funds



ANTT 1-Introduction to ANTT

Name	Concessionaire	Road	Extension
Section Rio de Janeiro/São Paulo	NOVADUTRA(03/1996-02/2021)	BR-116	402,0 km
Section Presidente Costa e Silva Bridge	PONTE S/A(08/1995-05/2015)	BR-101	23,34 km
Section Juiz de Fora/Petrópolis/Rio de Janeiro	CONCER(08/1996-02/2021)	BR-040	179,9 km
Section Além Paraíba/Teresópolis	CRT (03/1996-02/2021)	BR-040RJ /BR116	142,50 km
Section Osório/Porto Alegre	CONCEPA(07/1997-07/2017)	BR290	121,0 km
Road Polo Pelotas	ECOSUL (07/1998-03/2026)	BR-116/BR-392/BR-293	623,8 km
TOTAL			1.492,54

2001- Act 10.233- Creation of the National Land Transportation Regulatory Agency- ANTT in 2002.





2-The Technologic Development Fund (RDT)- ANTT Resolution

RESOLUTION N° 483, MARCH 24 OF 2004.

DEFINES THE FUND APLICATION:

- *Road engineering.*
- *Annual Value: 0,25% of the gross budget expected.*
- *The non used value is reversed to the custom tariff moderateness.*
- *The projects and researches can be realized by the concessionaire alone or by accord with public or private corporate.*



2-ANTT Resolution

The agreement of the project is given by ANTT by accomplished of this items:

- 1-Program
 - Stages
 - Schedule for execution

2-Adequacy of the program to the resolution:

Art. 3º The research intend to development of:

- I – building process or techniques ;
- II – practice of the technology;
- III – technical solutions for roads problems;
- IV – technical capacitating.



2-ANTT Resolution

After the agreement, the ANTT:

- 1- Follow the reports;
- 2- Check the labs and the researches *in loco* ;
- 3- Follow the financial accounting of the project;
- 4- Calculates the value that will be reversed from the research fund to the tariff.



2-ANTT Resolution

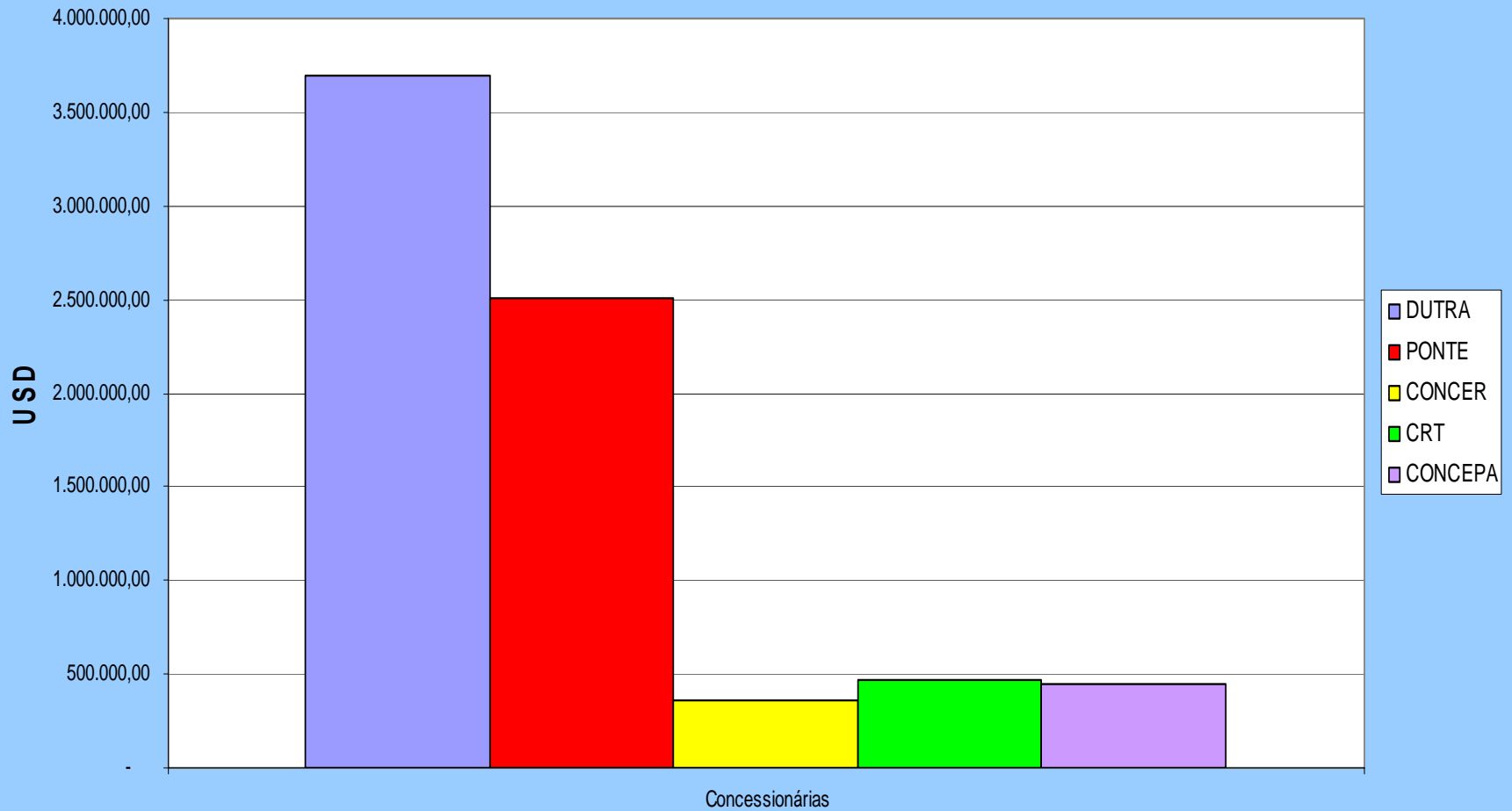
Art. 10. All the products development by the application of the research fund will vest integrally to the ANTT, including its authors copyright.

This resolution don't apply to the concessionaire ECOSUL - there's no contractual foreseen



3-Foreseen Money

Recursos Totais (2006) USD



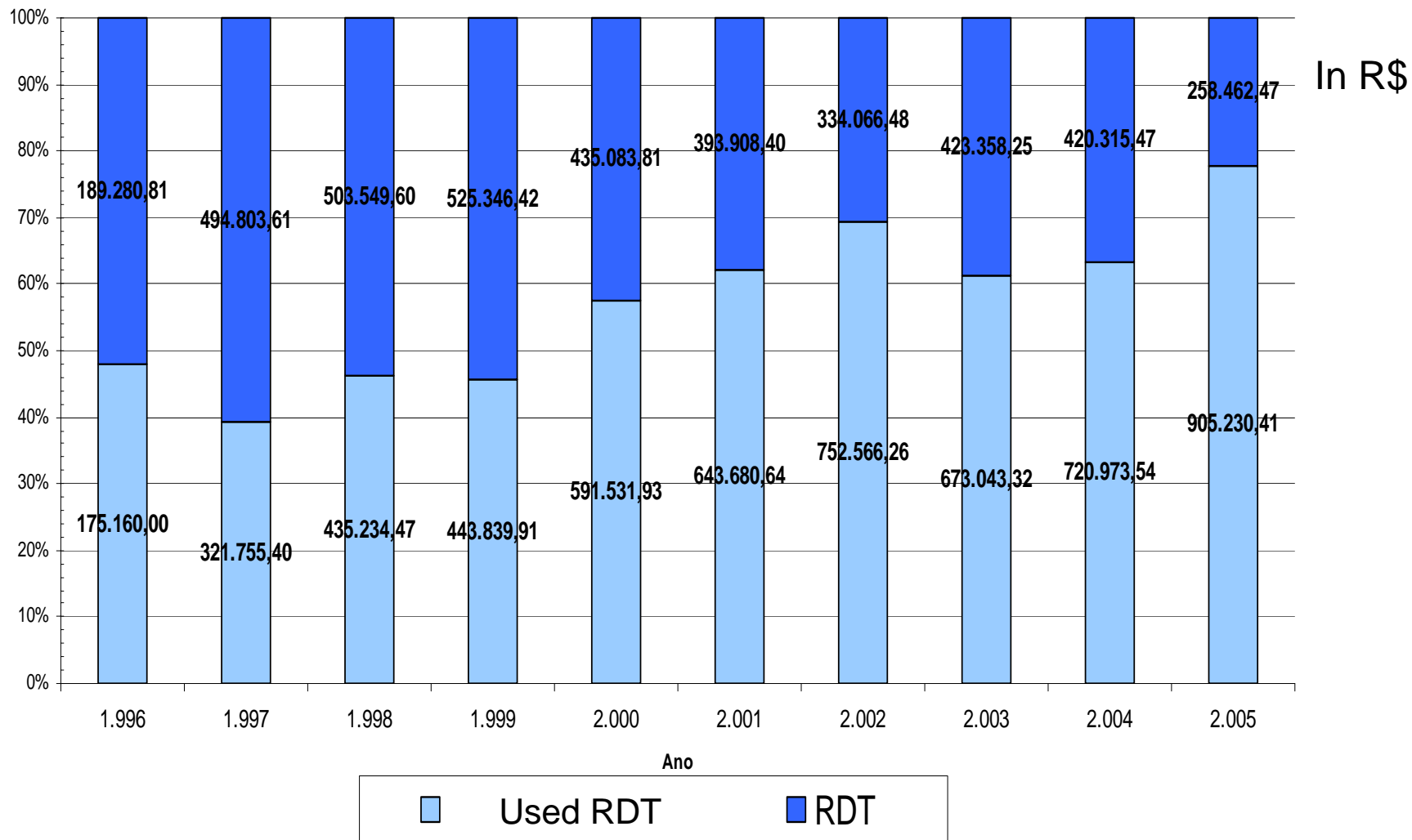


3-Employed Money

Concessionaire	Years	1.996	1.997	1.998	1.999	2.000	2.001	2.002	2.003	2.004	2.005
DUTRA	RDT	136.242,80	423.153,36	487.637,52	498.767,00	541.499,88	542.927,67	578.082,99	581.785,58	614.205,21	638.564,22
	Used RDT	-	-	-	108.145,61	154.996,16	120.910,07	145.136,69	194.357,38	117.193,22	315.275,20
CONCER	RDT	36.649,94	36.649,94	36.649,94	36.649,94	36.649,94	36.649,94	36.649,94	36.649,94	36.649,94	36.649,94
	Used RDT		20.250,00	54.000,00		26.500,00	108.162,26	152.514,61	59.937,79	26.408,76	34.032,49
CRT	RDT	16.388,08	51.120,82	54.538,05	65.300,57	74.426,05	78.483,35	79.753,37	80.872,07	88.105,88	82.054,19
	Used RDT	-	1.645,40	81.374,47	35.834,30	85.466,11	87.278,43	130.246,34	95.317,29	204.632,35	221.741,07
CONCEPA	RDT		5.774,89	60.098,56	68.608,82	74.179,88	79.668,08	92.286,44	97.233,98	102.467,99	106.564,54
	Used RDT					24.709,66	27.469,87	24.808,62	23.570,86	72.879,21	34.321,65
PONTE	RDT	175.160,00	299.860,00	299.860,00	299.860,00	299.860,00	299.860,00	299.860,00	299.860,00	299.860,00	299.860,00
	Used RDT	175.160,00	299.860,00	299.860,00	299.860,00	299.860,00	299.860,00	299.860,00	299.860,00	299.860,00	299.860,00
	RDT	364.440,81	816.559,01	938.784,07	969.186,33	1.026.615,74	1.037.589,04	1.086.632,74	1.096.401,57	1.141.289,01	1.163.692,88
	Used RDT	48,1%	39,4%	46,4%	45,8%	57,6%	62,0%	69,3%	61,4%	63,2%	77,8%

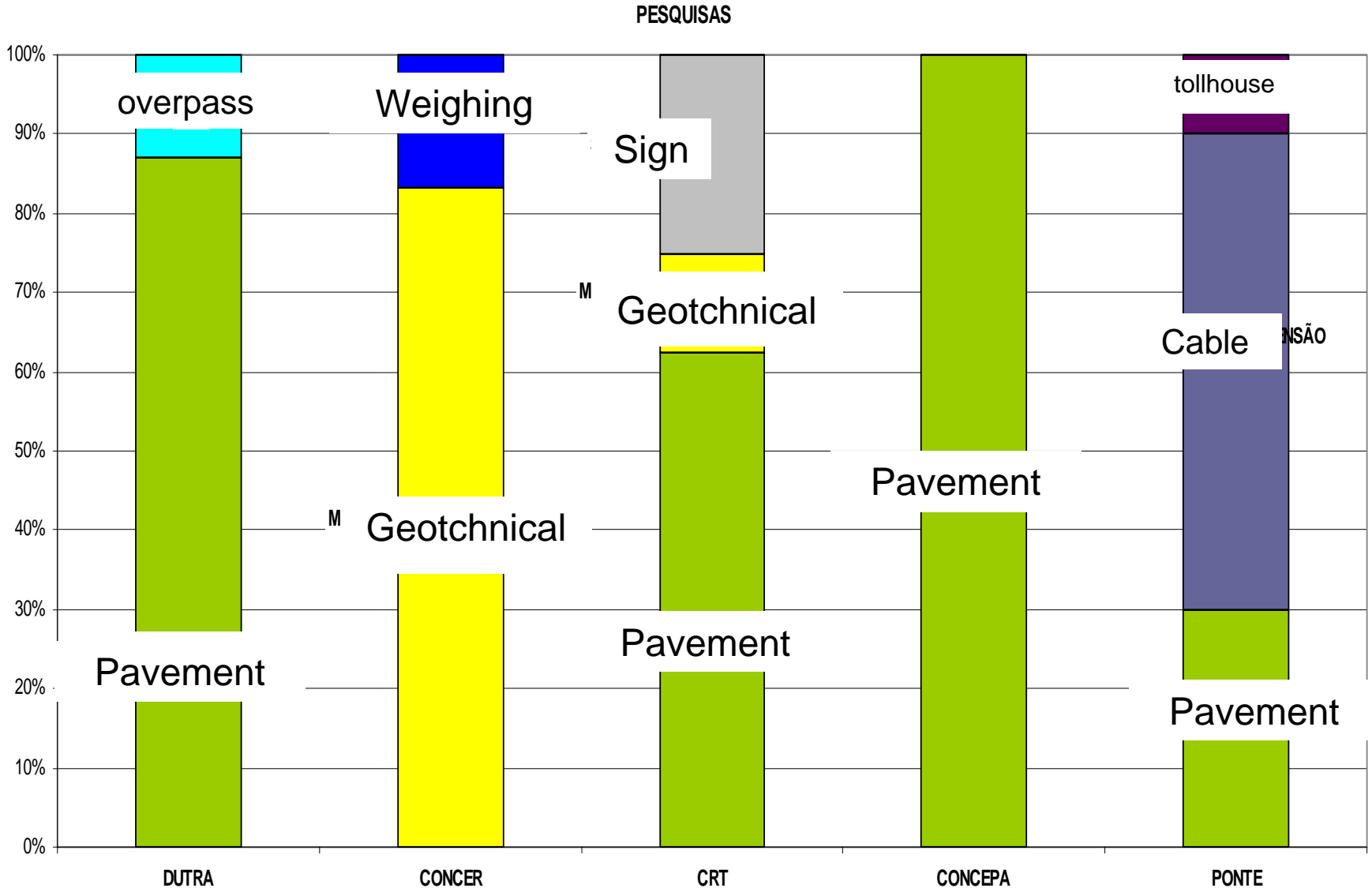


3-Employed Money





4-Researches Subjects





4-Majors concerns

BR116- RIO-SÃO PAULO

**Number of heavy vehicles
Wheel Trail**

BR101- PONTE RIO NITERÓI

**Protension cables
Urban road**

BR040- RIO-PETRÓPOLIS

**Hillside Slipping
Irregular occupation**

BR040- RIO-TERESÓPOLIS

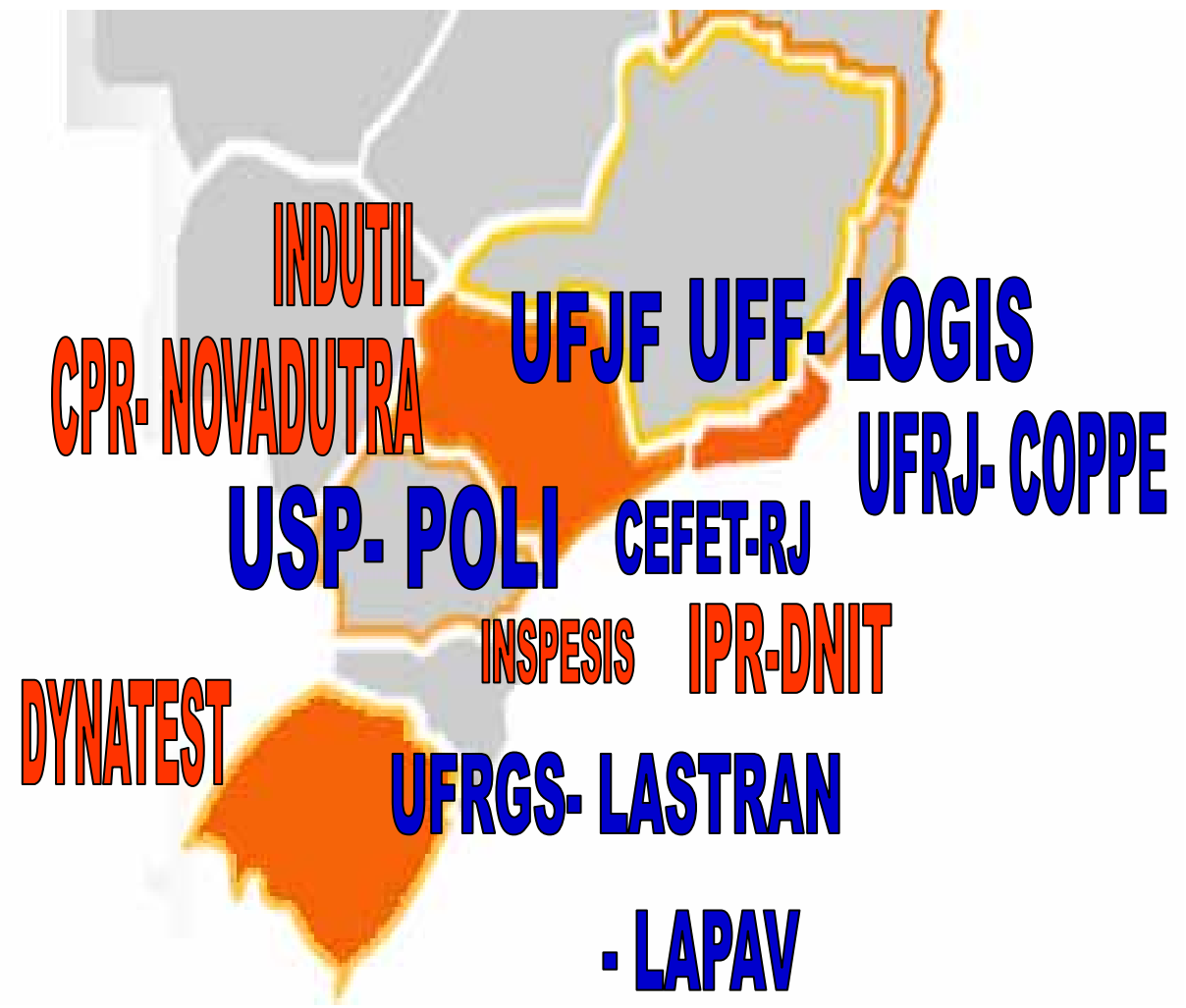
**Hillside and pavement
slipping-
Irregular occupation**

CONCEPA

Organic substrate



4-Partners at research until now





5-WORKSHOP

Happened once a year at Brasilia (since 2005)
Exhibit of the projects
In the presence of researchers and Universities
Researches analyses

Improvements to 2008

Accessibility to the papers at the ANTT site-

www.antt.gov.br.

Feedback – the useful researches.

Use of 100% of the fund.



6-Conclusion

- Growing use.
- Participation of the academic community at the road manager process – professional capacitating.
- Problems solving.
- Abundance of data to analyses.
- *In loco* activities of research.
- Uninterrupted investments for more 10 or 15 years.