

Reforestation of Degraded Slopes of the City of Rio de Janeiro with **Community Mobilization**

Luiz Octavio de Lima Pedreira SECONSERMA - Rio de Janeiro City Environmental Office <loprj@gmail.com>

PS 2.2: The Present 1 - Changing spaces and places







CERTIFIED





World Forum on **Urban Forests** Aantova 2018

Reforestation of Degraded Slopes of the City of Rio de Janeiro with Community Mobilization

- History of Rio de Janeiro City Flora Degradation
- **Slope Reforestation Initiatives in the 19th Century at Rio de Janeiro City**
- Accidents on Slopes and Slope Reforestation at Rio de Janeiro City in the 20th Century
- **Reforestation of Slopes at Rio de Janeiro City with Community Mobilization: Mutirão Reforestation Project**
- Main species used in Mutirão Reforestation Project
- **Mutirão Reforestation Project Today**
- Conclusions

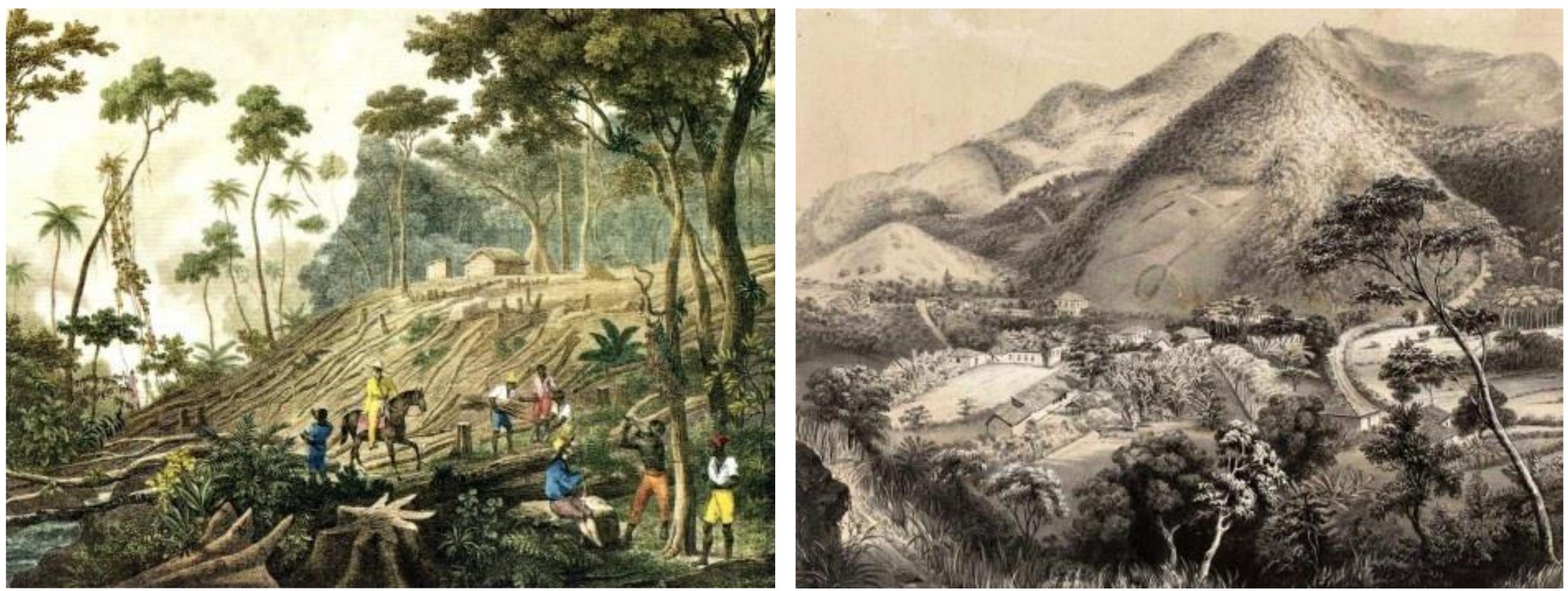
OVERVIEW





World Forum on **Urban Forests** Mantova 2018

History of Rio de Janeiro City Flora Degradation



Rugendas, "Removing a forest", c.1820-1825.

Reforestation of Degraded Slopes of the City of Rio de Janeiro with Community Mobilization

Detail of a lithograph, Alfred Martinet "Sierra of Tijuca, Bella Vista", 1849.



Reforestation of Degraded Slopes of the World Forum on **Urban Forests City of Rio de Janeiro with Community Mobilization** Mantova 2018 **Slope Reforestation Initiatives in the 19th Century** at Rio de Janeiro City



Major Manoel Gomes Archer



Slaves working on the reforestation of the Floresta da Tijuca



Gastão Luís Henrique de Escragnolle

Baron of Escragnolle

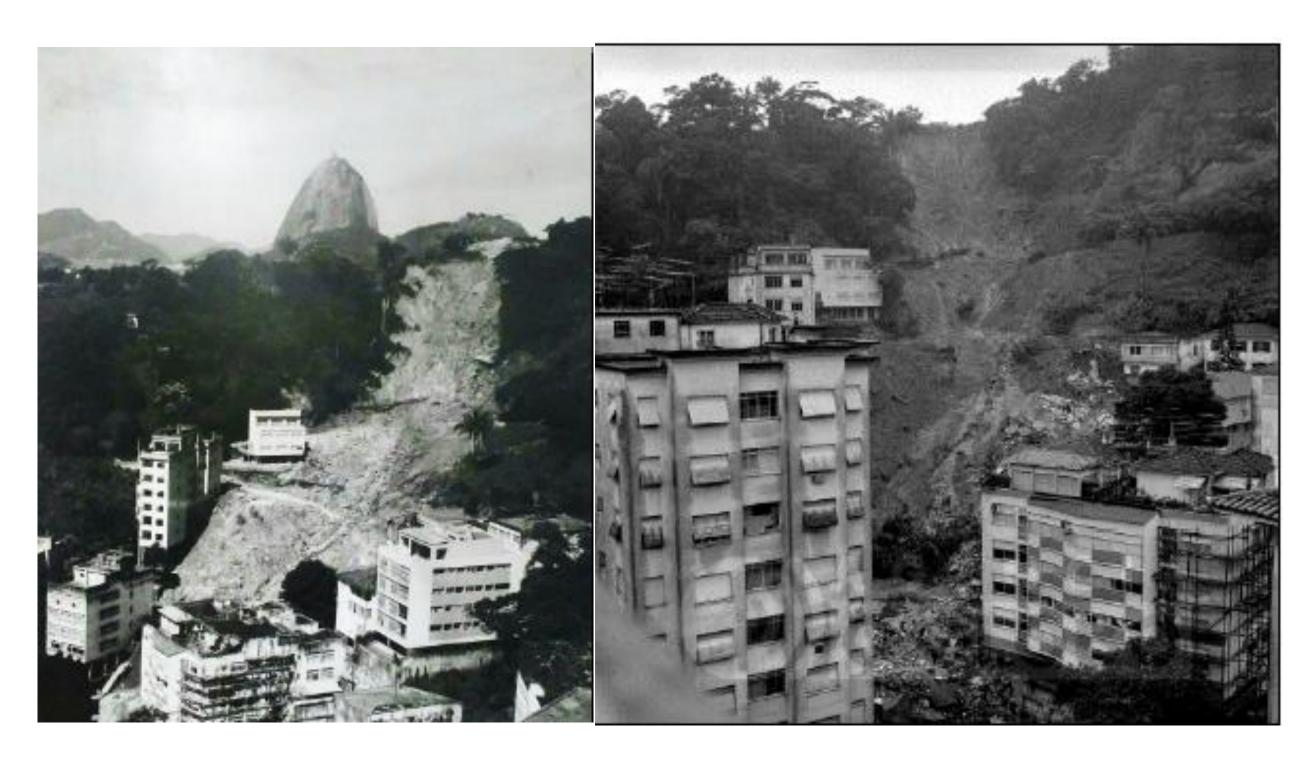




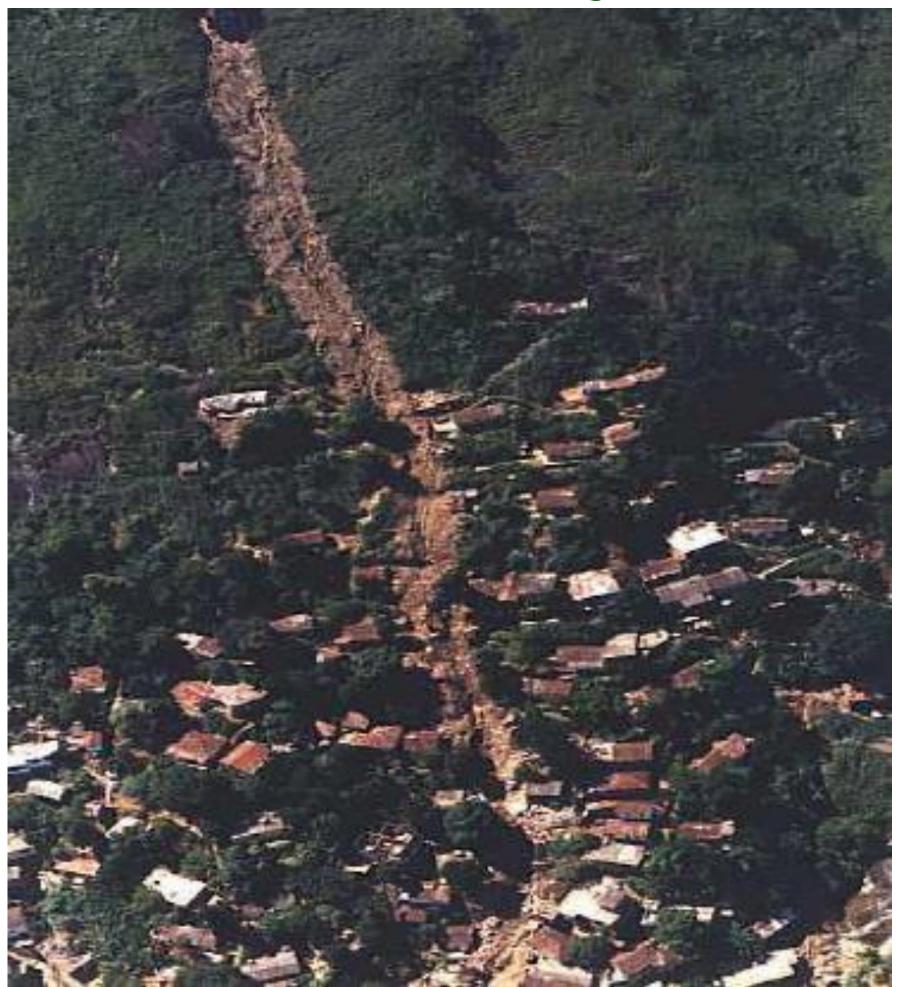
World Forum on **Urban Forests** Mantova 2018

Reforestation of Degraded Slopes of the City of Rio de Janeiro with Community Mobilization

Accidents on Slopes at Rio de Janeiro City

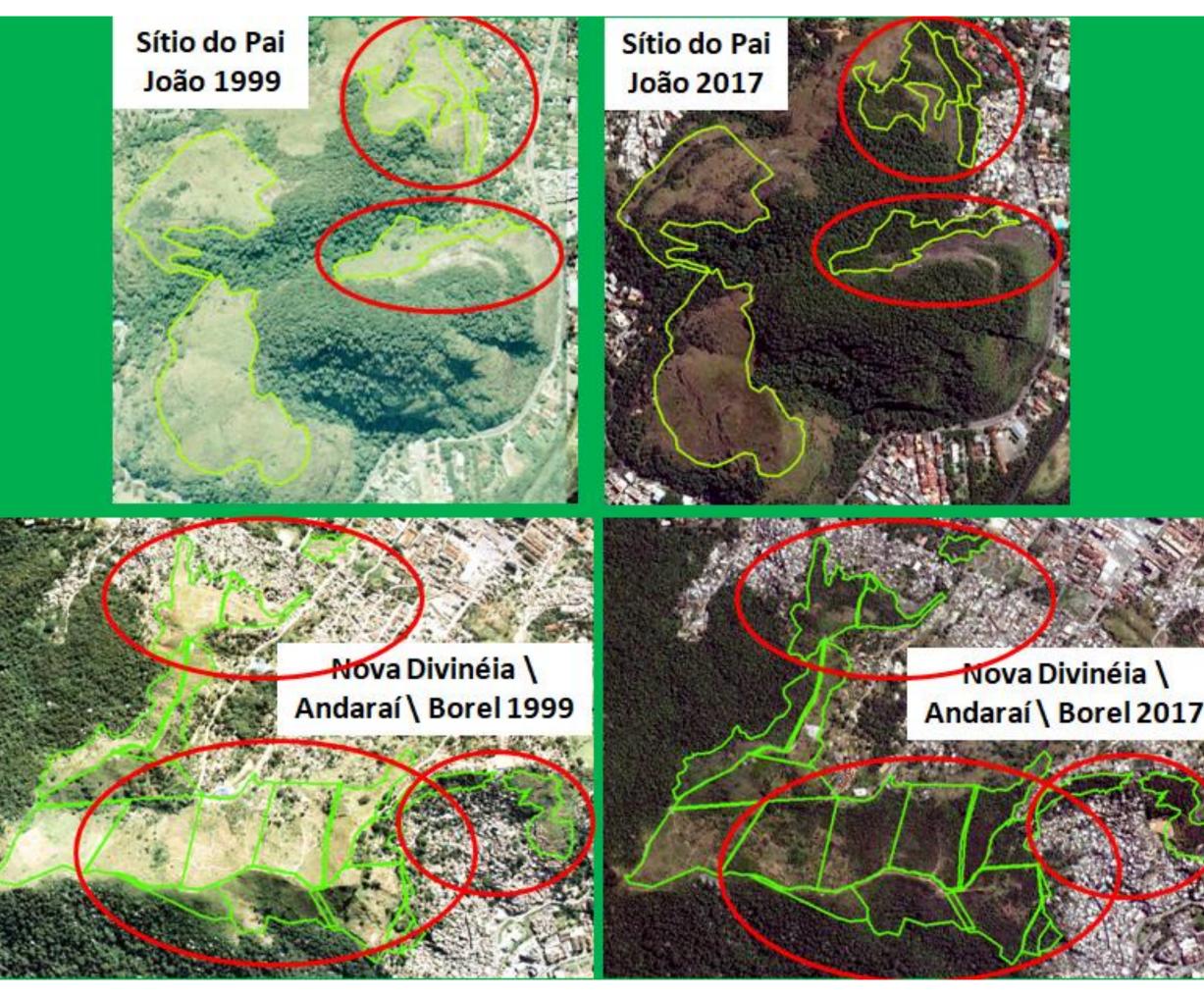


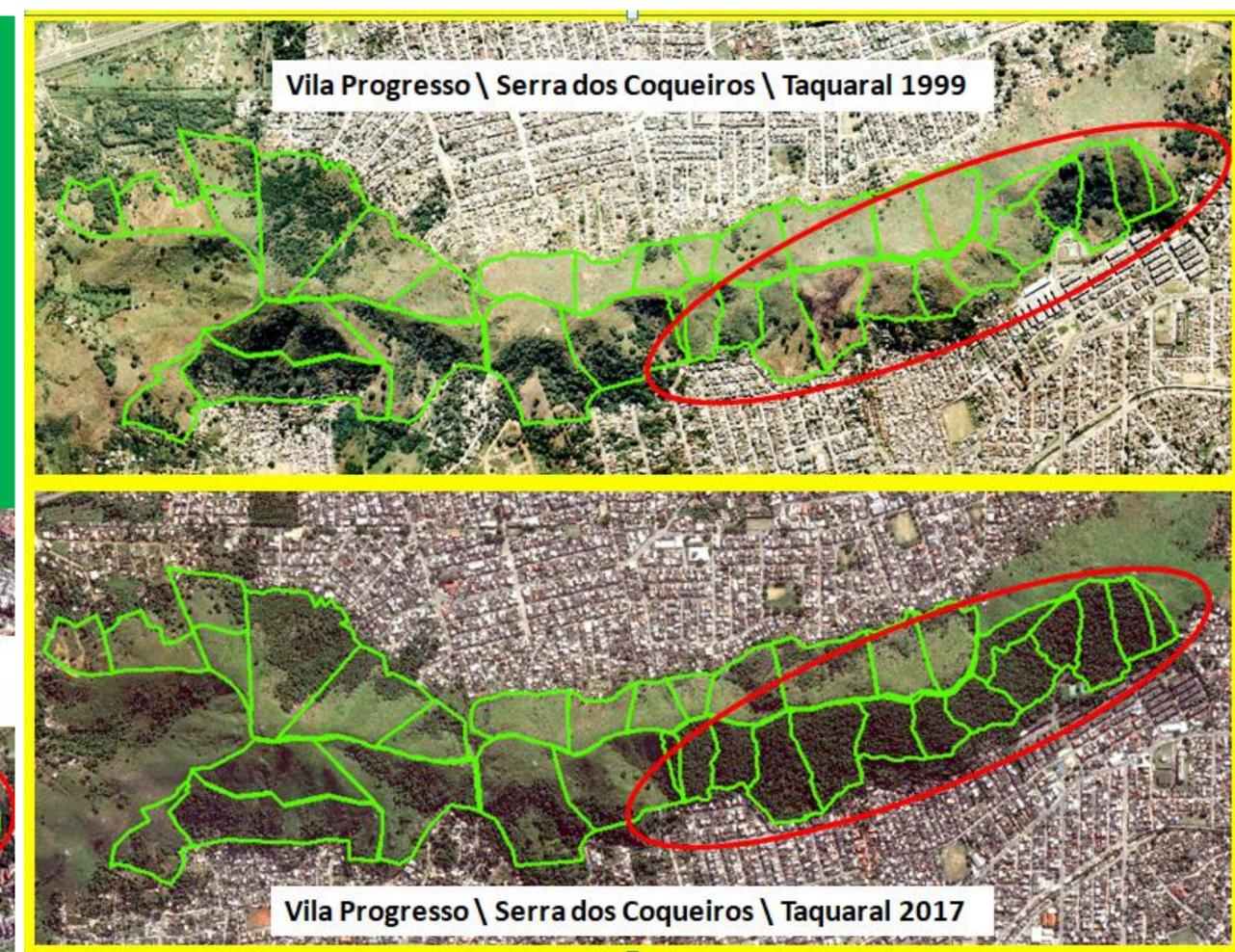
Laranjeiras Neighborhood, February 19, 1967, a soil slip caused the destruction of one house, two buildings, and the death of 119 persons.



Formiga slump, February 6, 1988, a soil and rock blocks slip caused the death of 7 persons.

Reforestation of Degraded Slopes of the World Forum on **Urban Forests City of Rio de Janeiro with Community Mobilization** Mantova 2018 Reforestation of Slopes at Rio de Janeiro City with Community Mobilization: Mutirão Reforestation Project







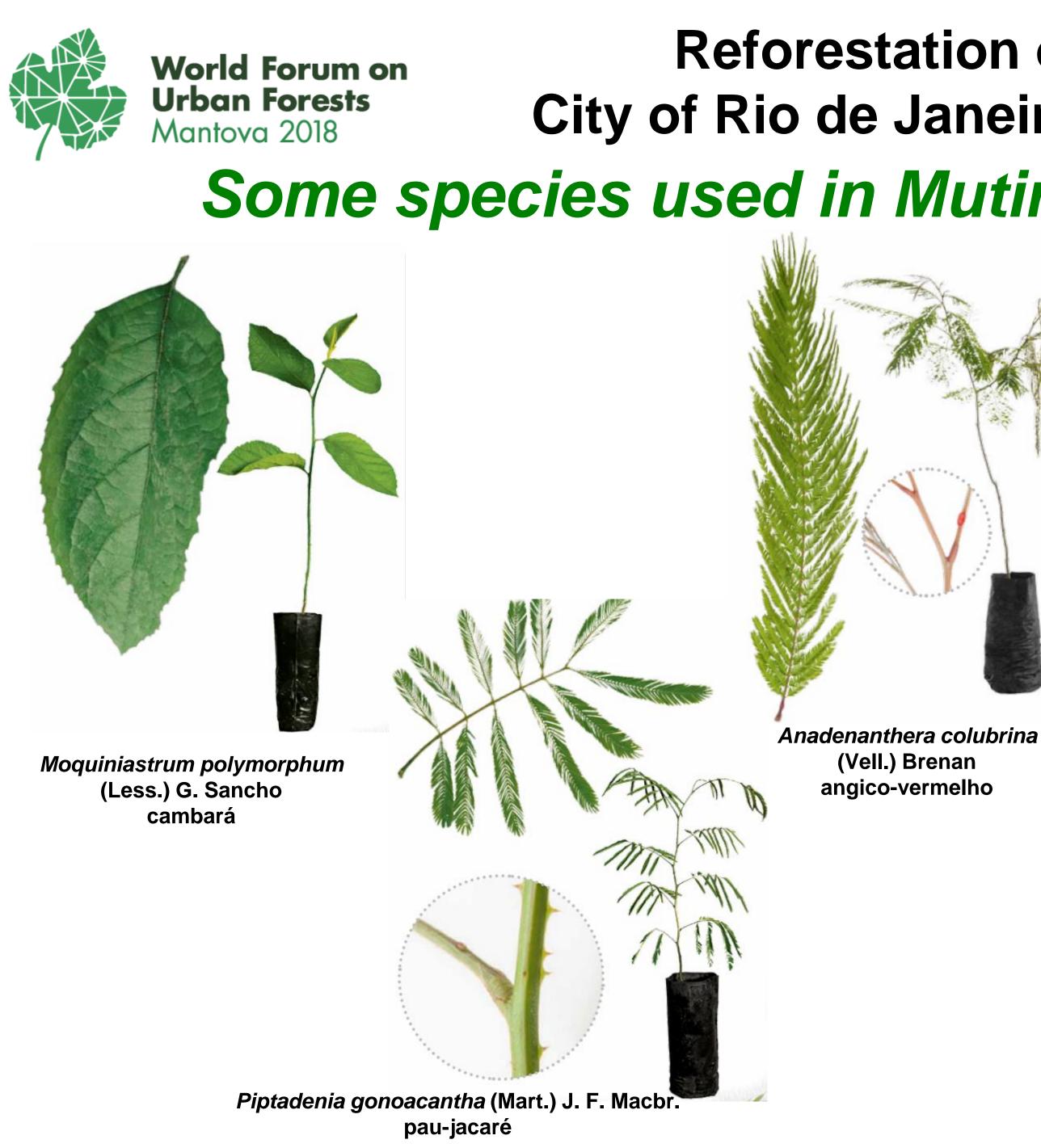


World Forum on **Urban Forests** Aantova 2018

Main species used in Mutirão Reforestation Project

Family	Cientific Name	Common Name	Percentage (%)
FABACEAE	Mimosa caesalpiniifolia Benth.	sabiá	27
ASTERACEAE	Moquiniastrum polymorphum (Less.) G. Sancho	cambará	7
FABACEAE	Leucaena leucocephala (Lam.) de Wit	leucena	6
FABACEAE	Machaerium hirtum (Vell.) Stellfeld	borrachudo	3
FABACEAE	Piptadenia gonoacantha (Mart.) J. F. Macbr.	pau-jacaré	2
FABACEAE	Anadenanthera colubrina (Vell.) Brenan	angico-vermelho	2
FABACEAE	Peltophorum dubium (Spreng.) Taub.	canafístula	2
ANACARDIACEAE	Schinus terebinthifolia Raddi	aroeira-vermelha	2
FABACEAE	<i>Inga laurina</i> (Sw.) Willd.	ingá branco	2
MELIACEAE	Guarea guidonia (L.) Sleumer	carrapeta	2
	Total Percentage		55

Reforestation of Degraded Slopes of the City of Rio de Janeiro with Community Mobilization



Reforestation of Degraded Slopes of the City of Rio de Janeiro with Community Mobilization Some species used in Mutirão Reforestation Project

Inga laurina (Sw.) Willd. Ingá-branco

Schinus terebinthifolia Raddi aroeira-vermelha

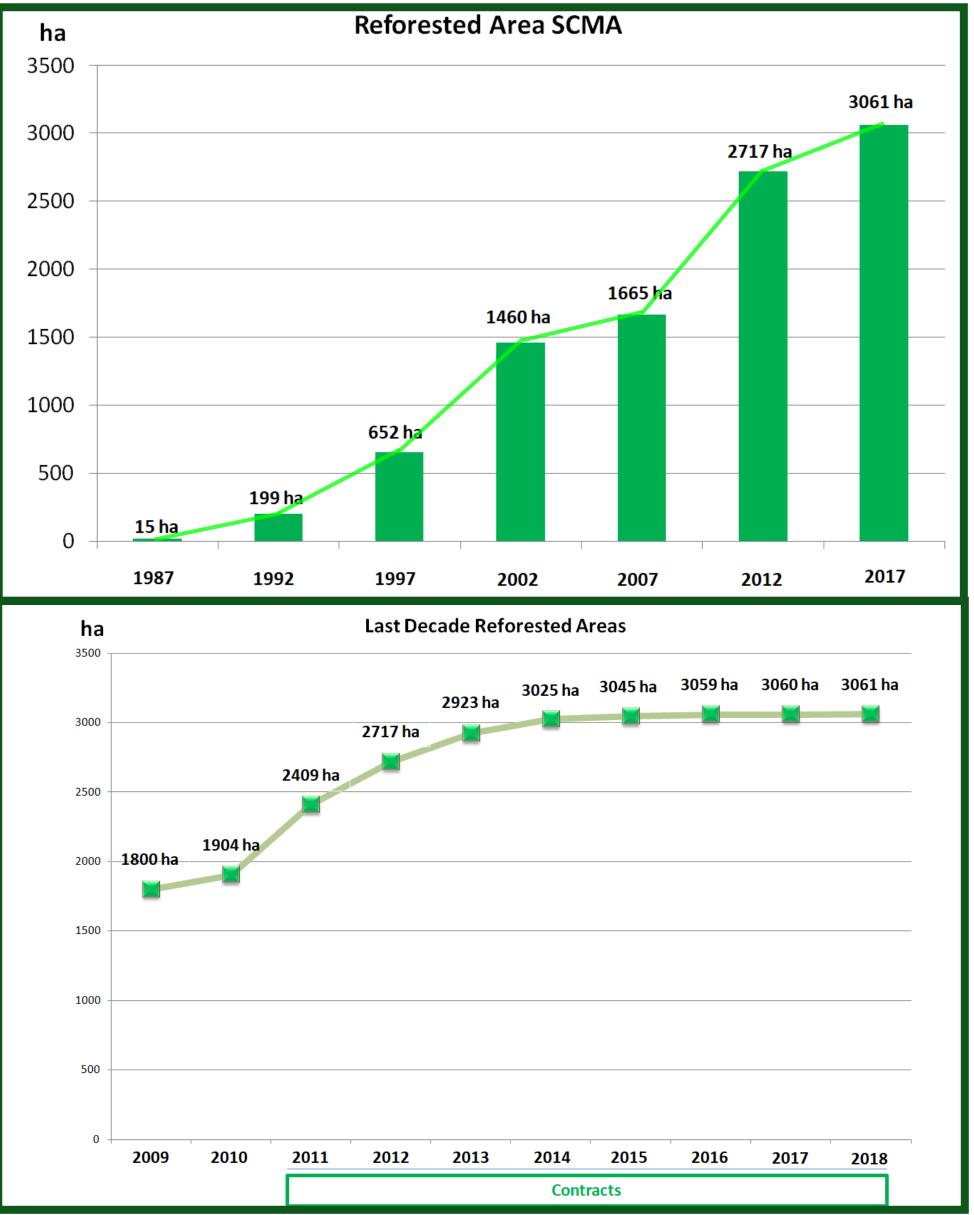
Inga laurina (Sw.) Willd. Ingá-branco

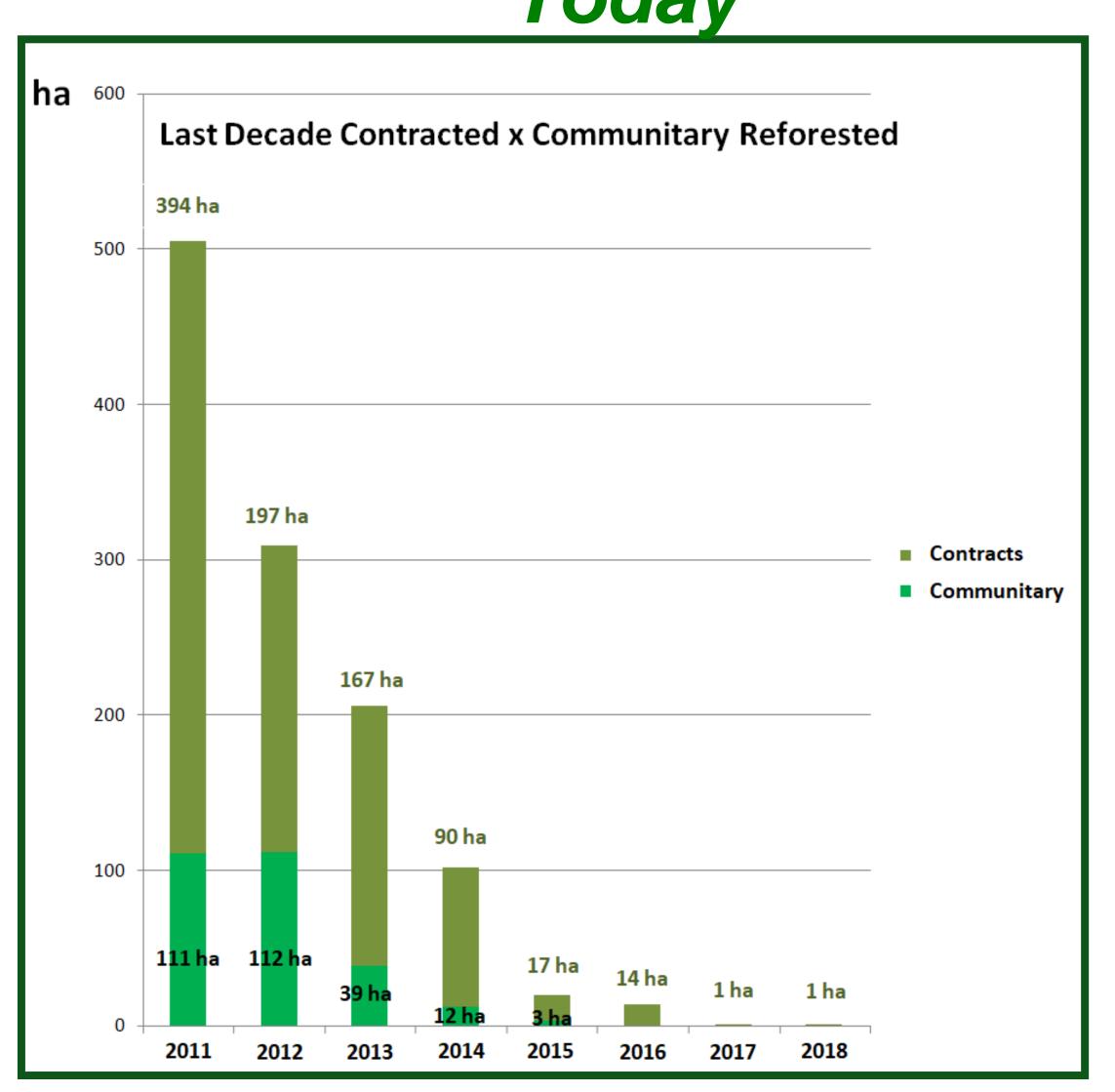




World Forum on **Urban Forests** Mantova 2018

Reforestation of Degraded Slopes of the City of Rio de Janeiro with Community Mobilization Mutirão Reforestation Project Today









World Forum on **Urban Forests** Aantova 2018

Reforestation of Degraded Slopes of the City of Rio de Janeiro with Community Mobilization **CONCLUSIONS**

- obtained good results;
- the 20th century that caused many deaths;
- **Reforestation Project has shown good results;**
- The Mutirão Reforestation Project today faces challenges due to city budget restrictions;
- planting new areas.

Let's Make a Better World, One Tree at a Time

Rio de Janeiro City has good and bad experiences in more than 150 years of slope reforestation;

Slope reforestation initiatives in the 19th Century, the most significative the Tijuca Forest reforestation,

The occupation of hillsides due to urban growth contributed to a series of accidents in the second half of

Slope Reforestation at Rio de Janeiro City in the first half of the 20th Century hasn't good results;

Since 1987 the reforestation of slopes with community mobilization, beginning with the Mutirão

The reduction in the opening of new areas is due to a team decision to prioritize maintenance instead of