

## Challenges and Achievements for Payments for Ecosystem Services in Brazil Prof. Virgilio Viana, Ph.D.

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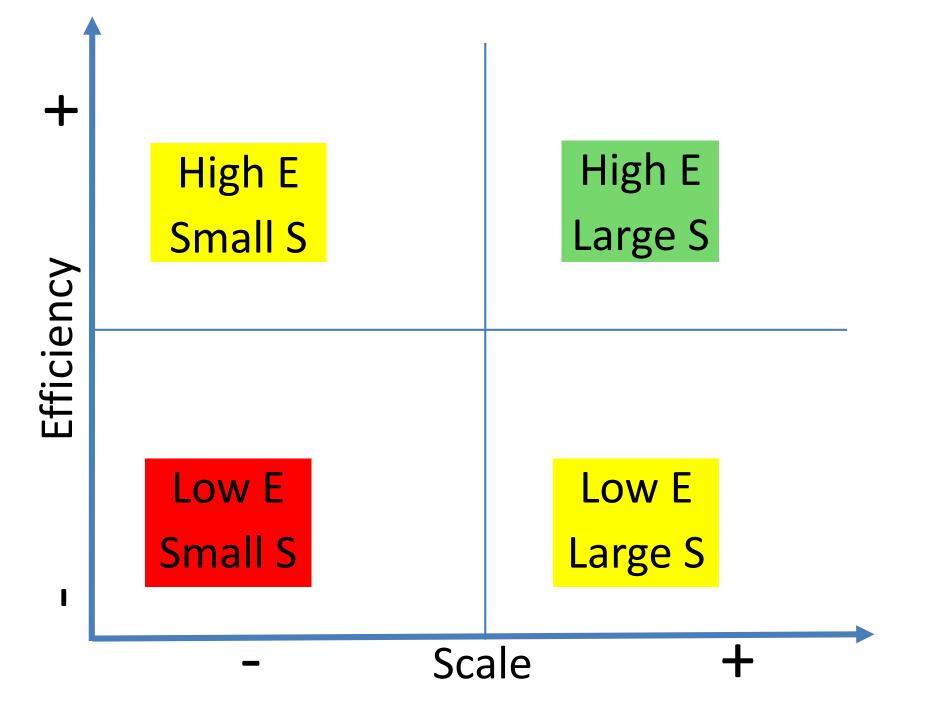


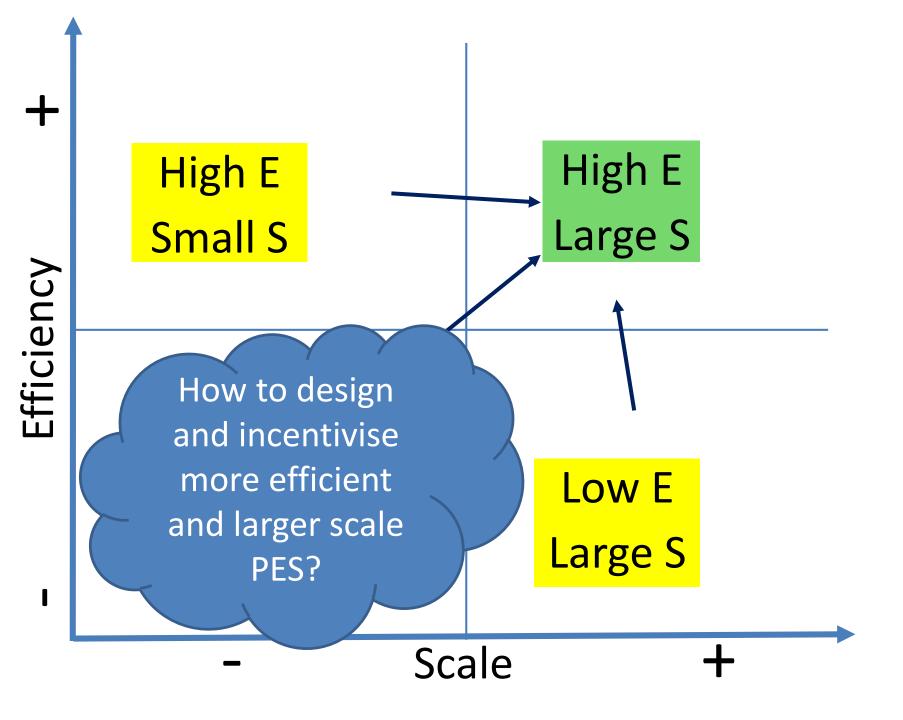
# PES INITIATIVES IN BRAZIL

Pascoal
Pascoal
do Ribeirão Pipiripau
ável da Biodiversidade da Floresta do Noroeste do MT
roba
lontes Claros
estas
1

#### + Federal Government

- Bolsa Verde

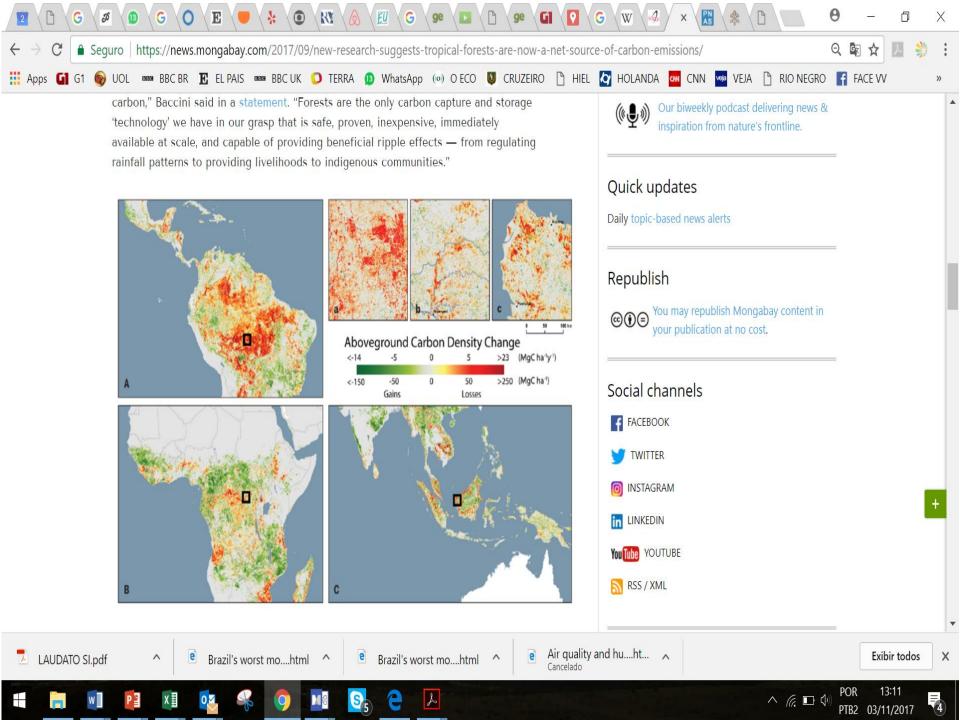




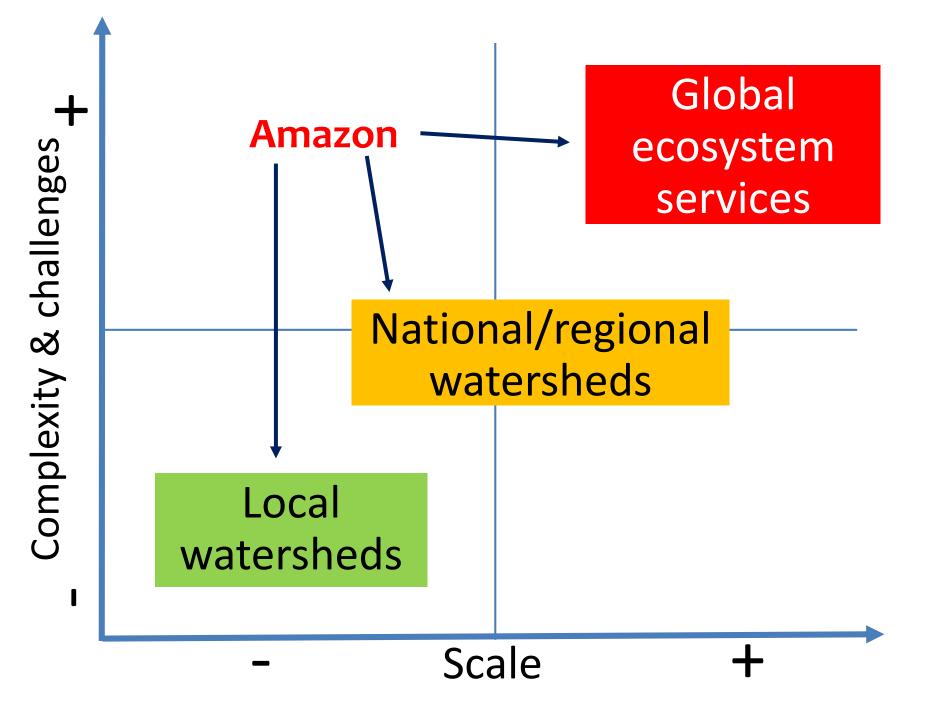
# Key challenges

1. Scaling up: beyond projects Political support Funding • Flexibility 2. Efficiency 3. Efficacy 4. Equity

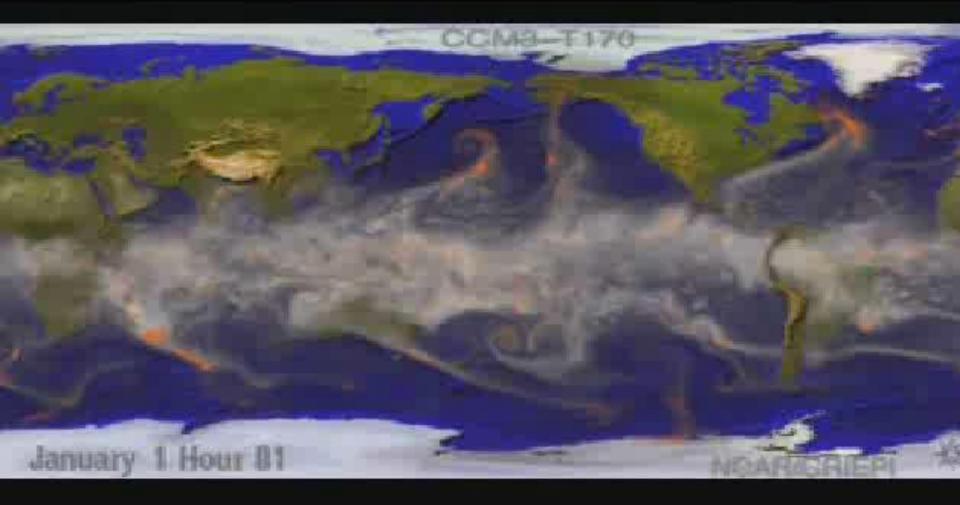




Infrastructure, roads and deforestation



### The Amazon forest as a provider of environmental services

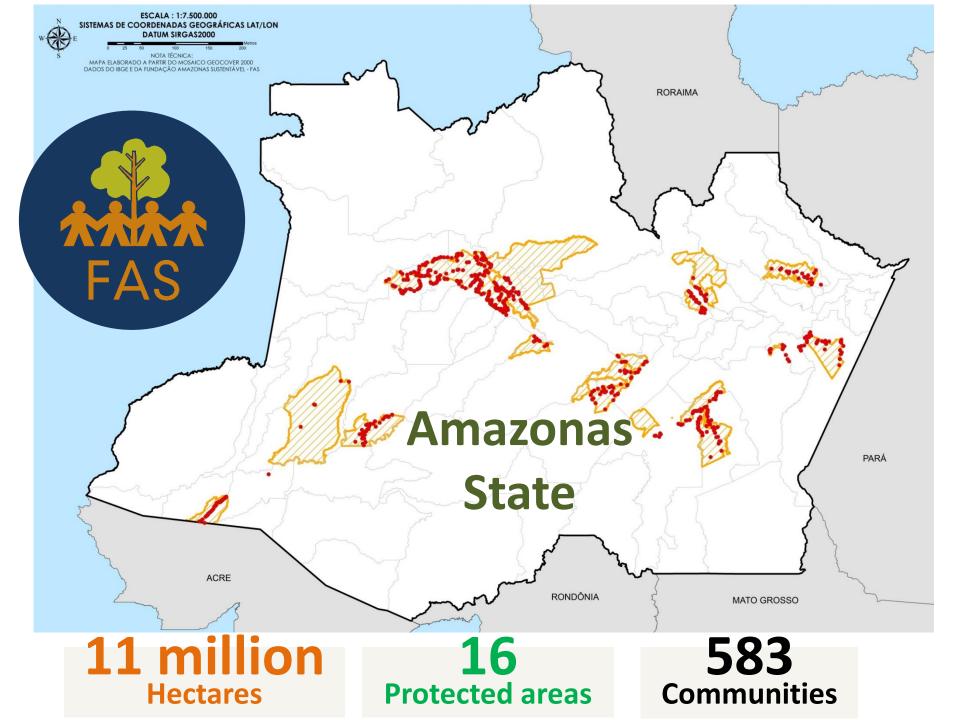


# Achievements of PES in Brazil

# What can be learned from success stories?

# **The Bolsa Floresta Program**





## Strategy 1: Make forests worth more standing than cut



Strategy 2: Participatory planning, empowerment and transparency

Strategy 3: Providing <u>relevant</u> education is the key for Sustainable Development of the Amazon

# NÚCLEOS DE CONSERVAÇÃO E SUSTENTABILIDADE (NCSS)





NCS AGNELLO UCHÔA BITTENCOURT (Iranduba - RDS Rio Negro) AÇÕES E INVESTIMENTOS DA FAS AÇÕES E INVESTIMENTOS DE OUTROS PARCEIROS

#### NÚCLEOS DE CONSERVAÇÃO E SUSTENTABILIDADE

LOCALIZAÇÃO E INÍCIO DAS ATIVIDADES



NUCLEOS DE CONSERVAÇÃO E SUSTENTABILIDADE



NCS PROFESSOR MÁRCIO AYRES RIS MAMERILIA, LARINI, CONUNIDADE PUNA Inicio due atividades em 2011



NCS UATURAĂ ROSUNTURĂ, MARIBANGA, CONUNIDA DZ SĂO FRANCISCO DO CASIBI Infecedam atividadam ogr 2010



NCS ASSY MANANA APA DO PRO MESIRO, MA MAUS, COM UNIDADE TRÊS UNDOS Infeir das atividades op 2011



NCS SAMUEL BENCHIMOL ROS JAMA, NOW ARSPLANA, COMUNIDADE ROA FREN Infeit das stividades en 2000



NCS AGNELLO BITTENCOURT UCHÔA RDS RO NEGRO, IRANDUDA, COMUNIDA DE TUMENRA Início das stóridadas em 2010

NCS VILA CUJUBIM RDSCUJUBIM, JUTAL COMUNICADE VILA CUJUBIM Infeio das atividades em 2000



NCS NCAES BERTHA BECKER RDS UACARL CARAUARL COMUNDADE CAMPINA Inicido das atividades em 2011



NCAES PADRE JOÃO DERICHOX ROS UACAR, CARA UAR, COMUNICA DE DA UANA Início das atividades em 2013



NCS VICTOR CIVITA RDS JUMA, NOVO ARSPUANÁ, COMUNIDADE DO ABELHA Início des etividades em 2012













Education with a focus on practical solutions for sustainable development



Foto: Acervo FAS

INVESTIMENTOS DO PROGRAMA

## Drinking water



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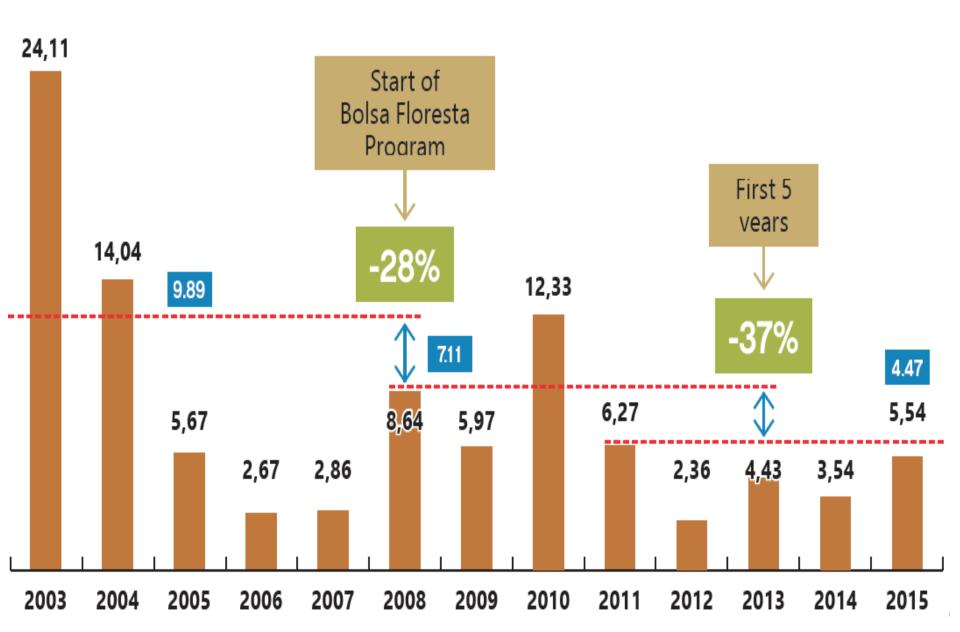
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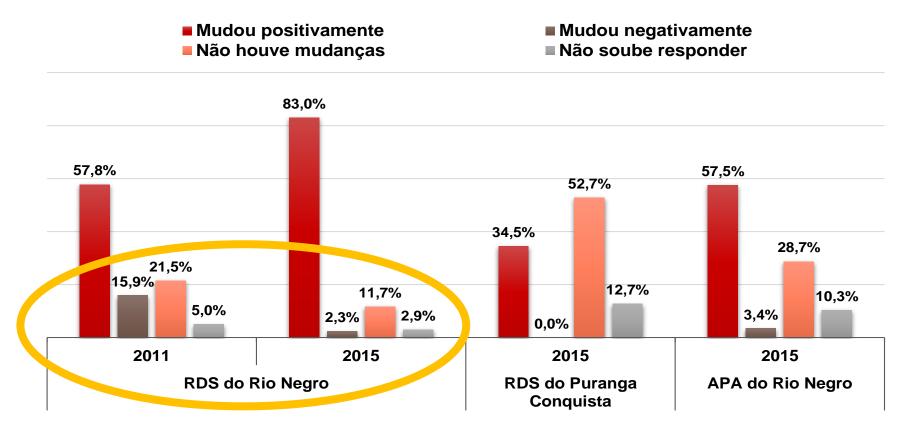
## Annual Deforestation Rate (km<sup>2</sup>)

FAS



#### **Benefícios** Qualidade de vida na comunidade

**Gráfico 22** – Houve mudanças na **Comunidade** com a chegada do Programa Bolsa Floresta? (Resposta Espontânea e Única)

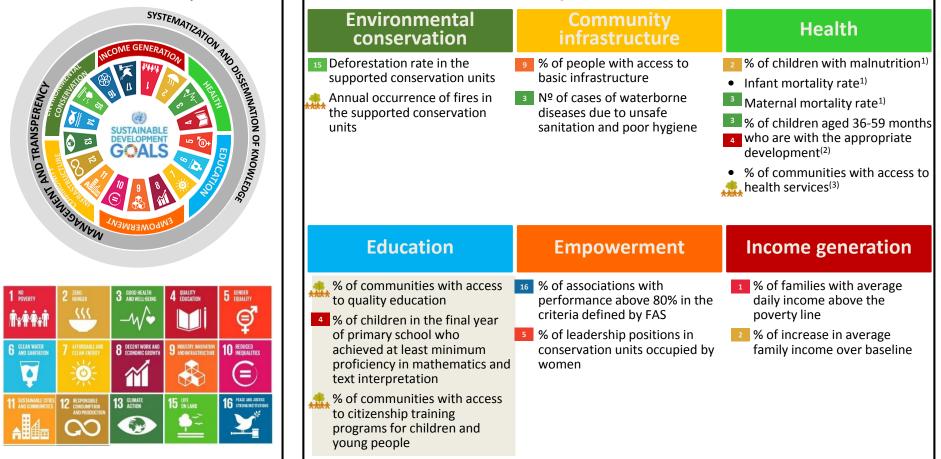


Fonte: Somente para quem é beneficiário do Programa Bolsa Floresta. RDS do Rio Negro 2011: 77.6% RDS do Rio Negro 2015: 80.3% RDS do Puranga Conquista 2015: 70.5% APA do Rio Negro 2015: 72.5%

#### Link SDGs directly impacted by Bolsa Floresta and measure key indicators

#### SDG directly impacted

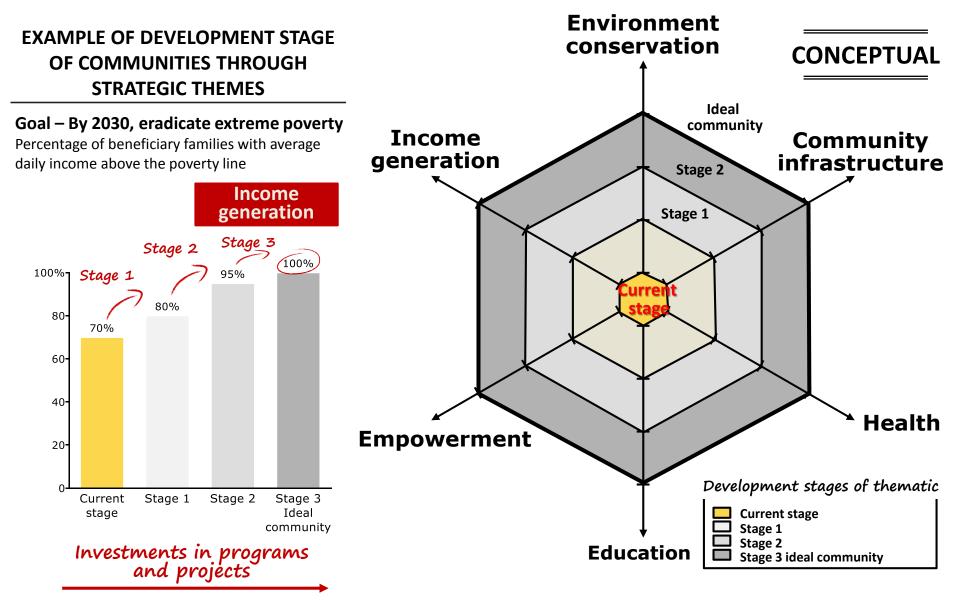
Key indicators



Note:(1) in communities served by FAS early childhood programs; (2) Adequate development in literacy, mathematics, physical development, socio-emotional development and learning; (3) presence of community health agents, emergency transportation, local people trained in first aid, local structure with minimal instruments (essential and allowed medicines, thermometer, manometer and glucose meter)

Source: Transforming Our World: The 2030 Agenda for Sustainable Development; Follow-up to Agenda 2030 for Sustainable Development

# Indicators are tracked to measure project success towards sustainable communities



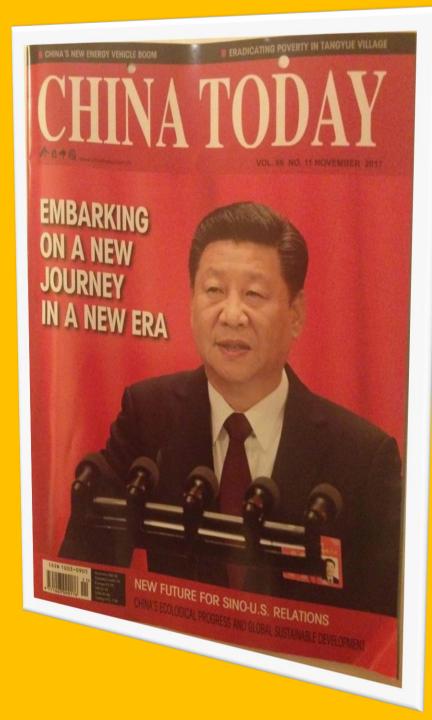
# What are the drivers of success?

1. Efficient and transparent institution 2. Effective program design of PES 3. Equity and participatory approaches & social technology 4. Measurement of indicators and delivery of results

*"Green mountains and clean water are gold and silver."* 

"Ecological culture and green development is a concept equal in importance to innovation, coordination, opening-up and shared benefits."

#### **Xi Jinping**



Pope Francis writes in Laudato Si', "we need a revolution guided by an integral ecology approach."



