

## Host Utilities



Co - Host Utilities



## ORGANIZER



# India SMART UTILITY Week 2024

## Supporting Ministries



# Session : 1ST INDIA - BRAZIL SMART ENERGY WORKSHOP LIGHT'S EXPERIENCES IN FIGHTING ENERGY LOSS

*Presented By*

**FELIPE TENÓRIO, DEPUTY-REGULATION, LIGHT, RIO DE JANEIRO**



#1

Light's concession area

#2

Light's way of fighting energy loss

*[overview from last decade]*

#3

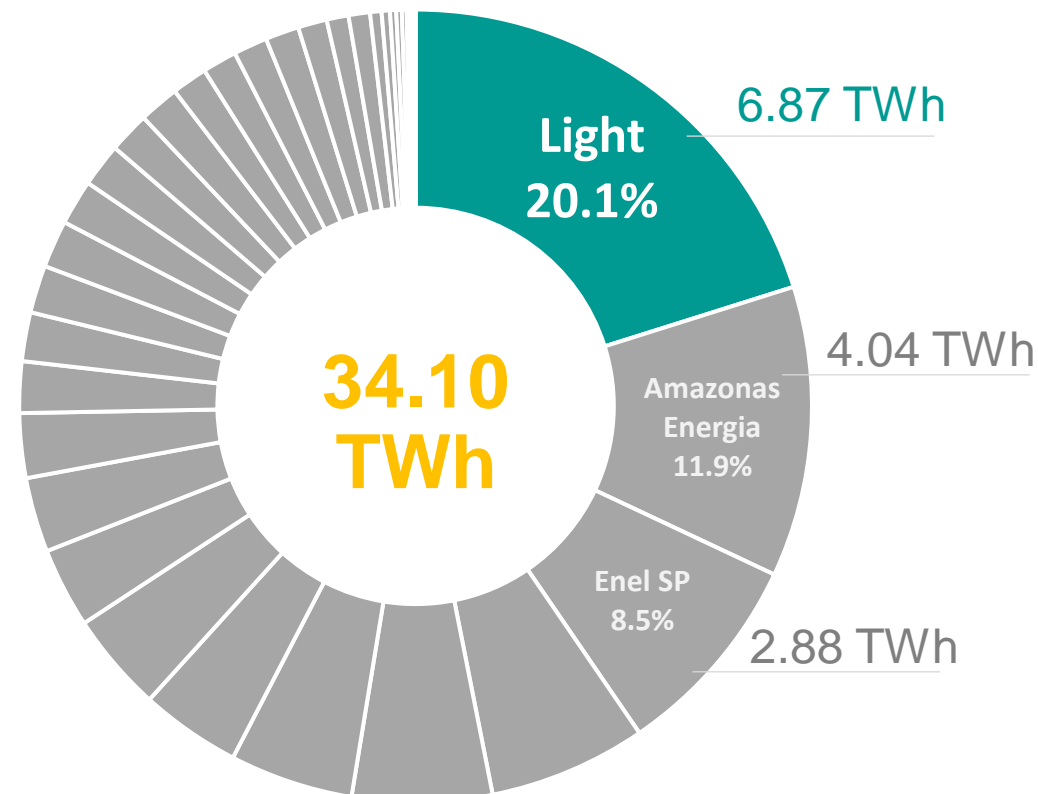
Light's new way of fighting energy loss

*[new approach]*

## NTL over low voltage market [2022]



## Brazil's total NTL [2022]



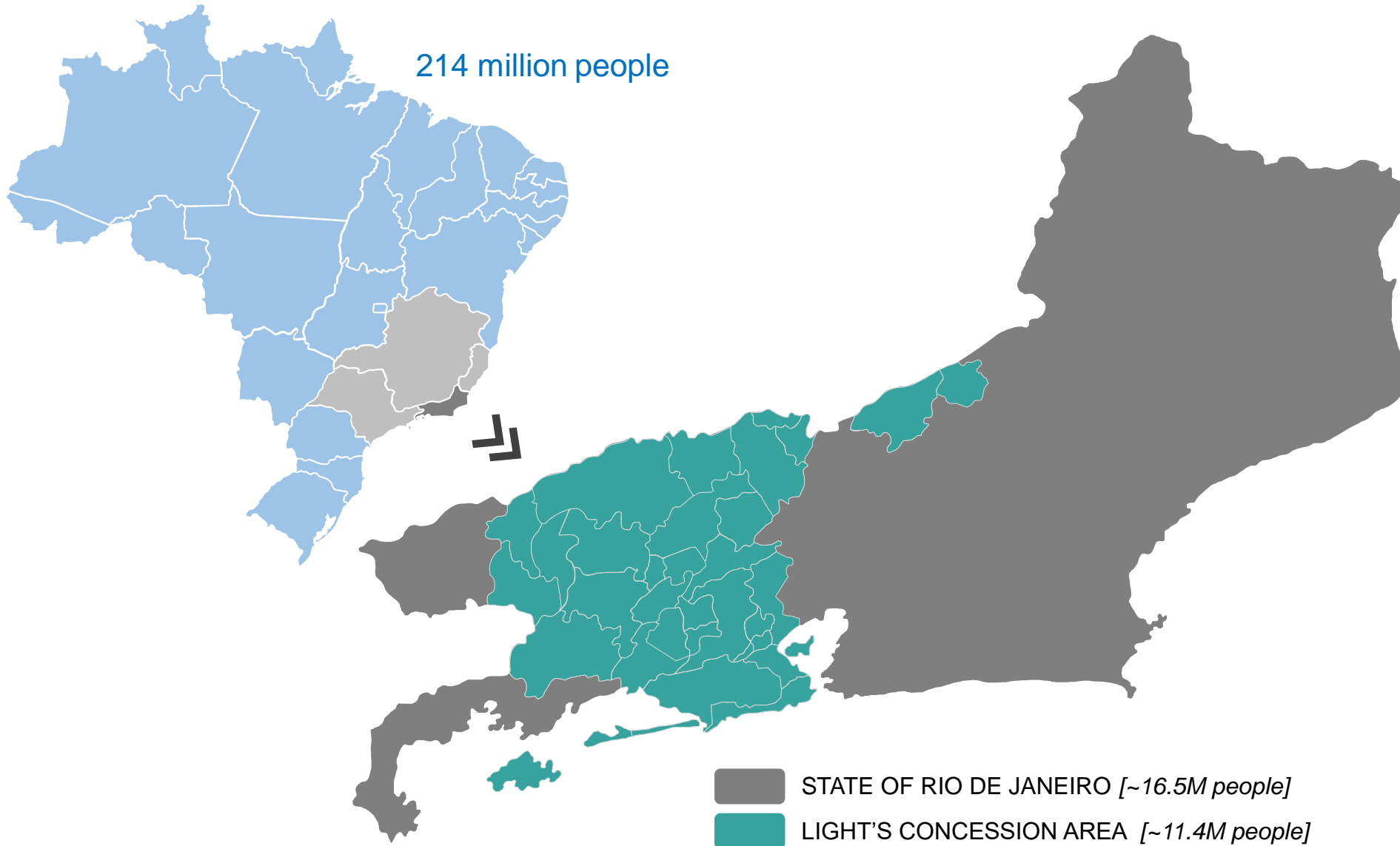
Source: ANEEL

# LIGHT'S CONCESSION AREA



India  
SMART UTILITY  
Week 2024

ISGF  
India Smart Grid Forum





# THE “TWO RIOS”



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SMART UTILITY  
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**ISGF**  
India Smart Grid Forum



2.9M	CONSUMERS	1.7M <i>[known]</i>
7.2M	PEOPLE	4.4M
17%	NTL OVER LOW VOLTAGE MARKET	390%
15%	LIGHT'S TOTAL NTL	85%

# 3rd

most unequal state in Brazil

# 22%

of Rio de Janeiro state's is  
placed in poverty-stricken  
conditions

Source: FGV, 2022

# +4M

of people living in non-state  
armed groups areas

# 390%

of an increase militia domain  
since 2006

Source: Uol, 2022



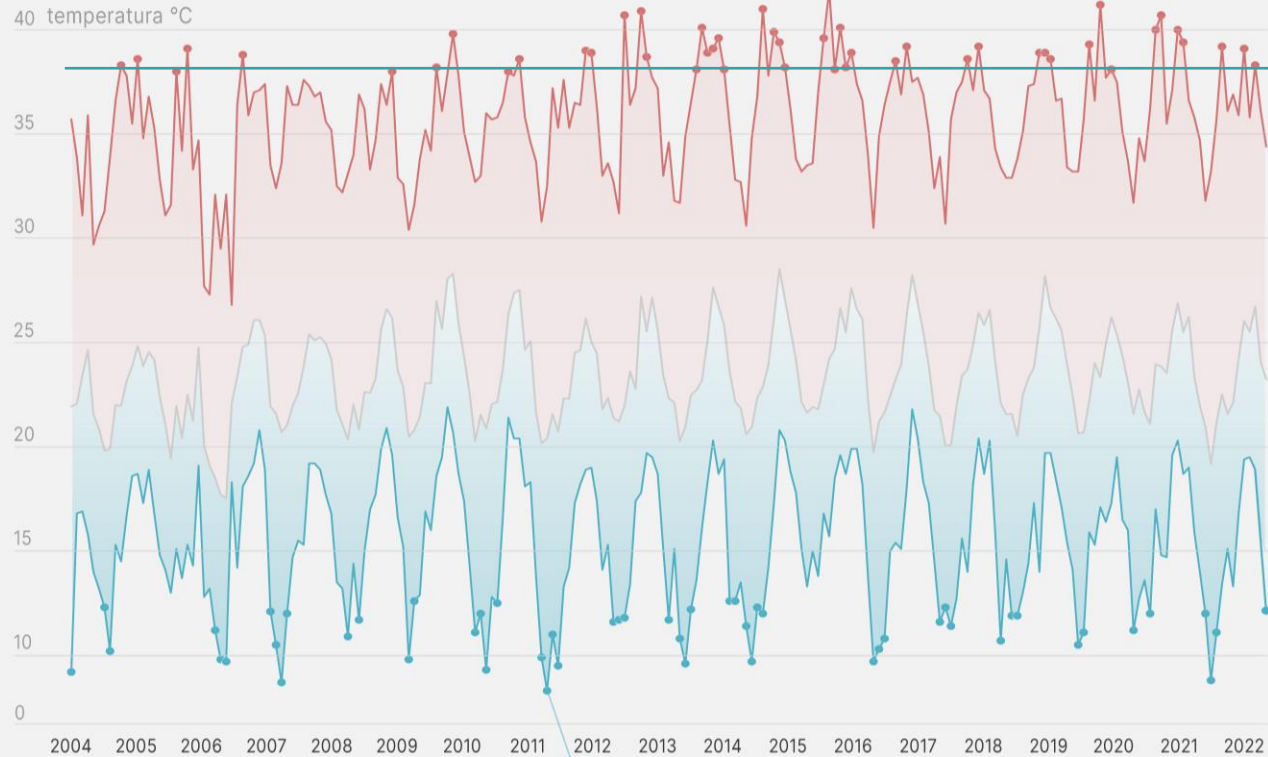
# FACTORS



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Maximum and Minimum temperatures in the city of Rio de Janeiro



Feels like ~50°C



Source: *Escritório de dados Rio Prefeitura, 2022*

# 120%

of an increase average  
residential energy tariff  
in Brazil since 2010

Subsidies

+286%

Generation

+142%

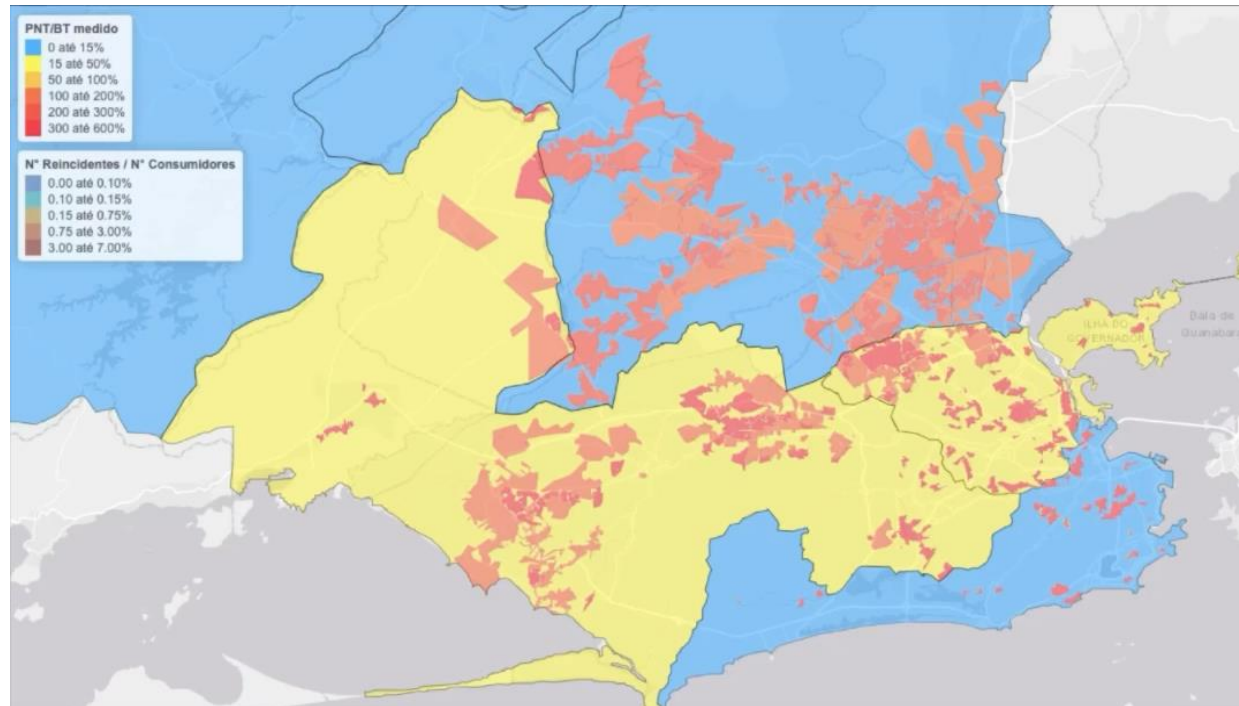
Inflation

+114%

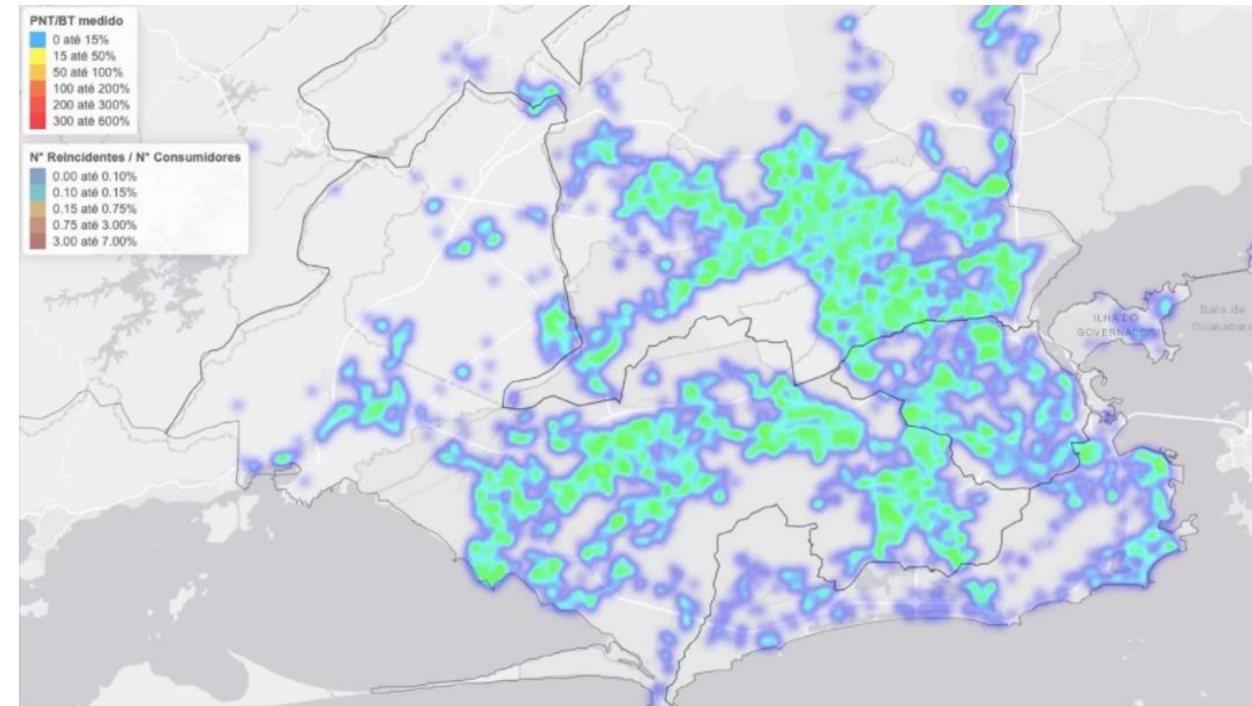
Source: ANEEL, Enconsel 2023



## NTL over low voltage market



## Recurring energy theft



# WHAT WE DID AND ARE DOING



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~ 1.41 Billion USD

i. Technology

i. Technology  
ii. Closer relationship with favela leaders

i. Technology  
ii. Social projects  
iii. Energy efficiency programs

Replanning

Financial prudence

New mindset

2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022

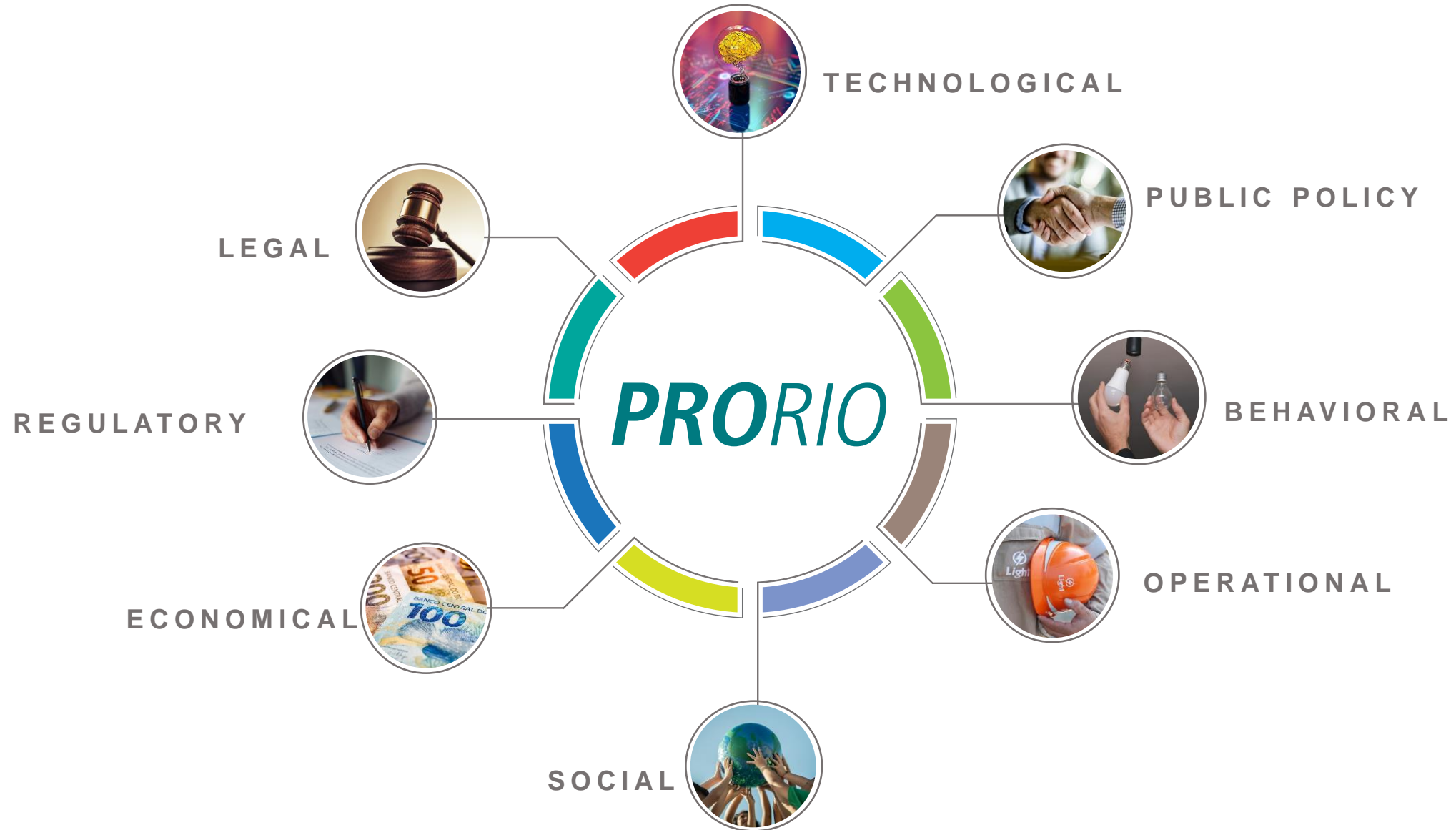
2023

UPP period (government program)



NTL over low voltage market

Light's Reference Market





# THANK YOU

*For discussions/suggestions/queries email: **isuw@isuw.in**  
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