

Green Companies for Green Regions and Green Cities

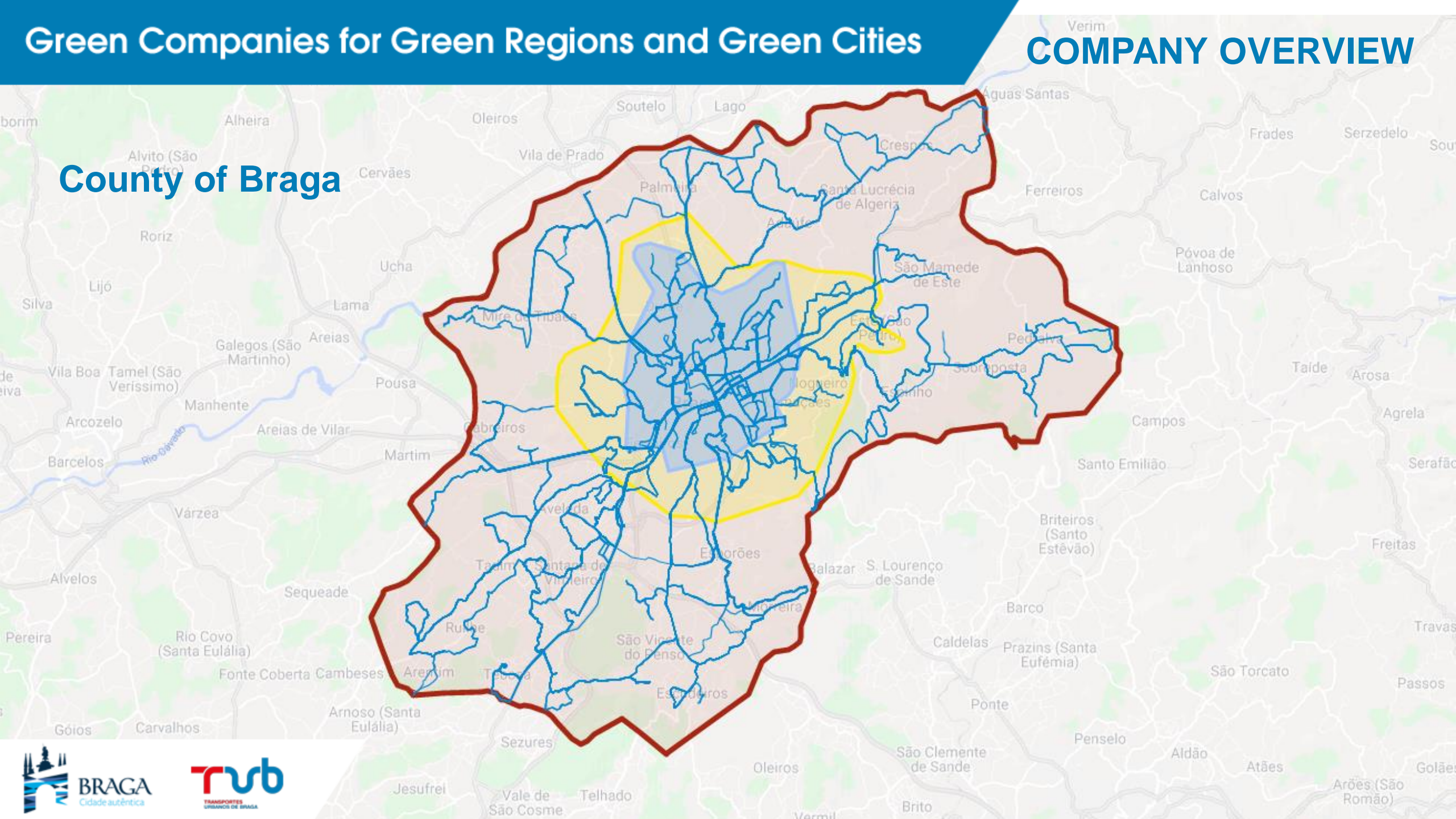


AGENDA

- BRIEF COMPANY OVERVIEW
- GREEN AND SUSTAINABLE PROCUREMENT APPROACH @ TUB
- EVIDENCE OF SOME GREEN AND SUSTAINABLE TENDERS
- SUSTAINABLE MOBILITY TRANSPORTATION
- BARRIERS TO LOCAL PUBLIC AUTHORITIES TO PROMOTE GPP
- SOLUTIONS FOR LOCAL PUBLIC AUTHORITIES TO PROMOTE GPP

Green Companies for Green Regions and Green Cities

County of Braga





345 Employees



138 Bus Fleet



300,57 Km Public Transport Network



74 Regular BUS Routes



1873 BUS Stops

2018



6 118 675 Km Travelled



400 220 Public Service Hours



592 174 BUS Trips

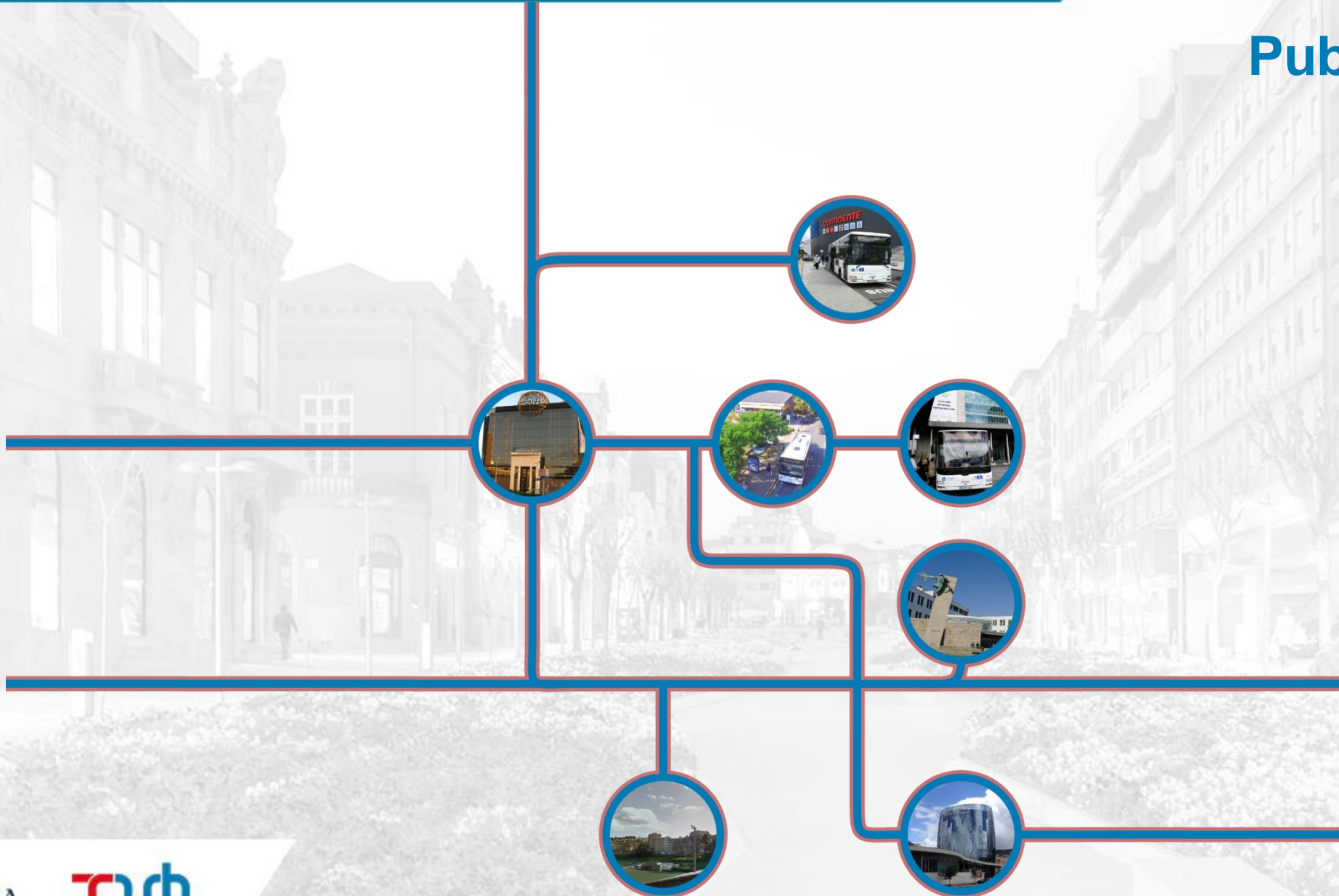


284,5 Missing Circulations



99,95% Services Performed

Public Service Network





11 936 889 Passengers Transported
+2,38%



6 223 504,91 € Sales Revenue (Tickets Sold)
+2,32%



587 851,25 € BUS Rental Services
+26,56%

Turnover



6 811 356,16
+4,04%

Net Profit



2014

2015

2016

2017

2018

INTEGRATED MANAGEMENT SYSTEM

ISO 9001:2015 – Quality Management Systems Certification

NP 4457 – Innovation Management Systems Certification



INTEGRATED MANAGEMENT POLICY

We aim to ensure integrated mobility solutions that promote collective sharing, in a context of well-being, comfort and safety, surprising and creating new economic and social expectations.

We join forces to attract, welcome and retain users, generating different mobility experiences in the Region.

We fight for innovation of processes exceeding the levels of efficiency and effectiveness, creating value and habits that generate relationships of affection and **social integration**.

We understand our internal and community commitment in a logic of **sustainability**, with a sense of belonging, responsibility, rigor and transparency, guiding our relationship in respect for the human being, for their fundamental rights, for the collective heritage and tradition.

We make efforts to enhance our skills and expand the areas of our activities in order to promote a more integrated mobility in the city.

MISSION

Offer mobility and comfort solutions in the region, meeting and surprising expectations of the partners involved.

VALUES

Comfort and Accessibility

Information and Sharing

Heritage and Tradition

Transparency and Belonging

Respect for Fundamental Rights

VISION

To be recognized in the field of integrated urban mobility as a distinctive element in society in terms of collective identity.

GREEN AND SUSTAINABLE PROCUREMENT PRACTICES @ TUB

PLAN

1. DECISION TO ADOPT A GREEN AND SUSTAINABLE PROCUREMENT APPROACH.

2. GPP SCOPE DEFINITION, BEARING IN MIND THREE MAIN FACTORS:

- **Environmental impact:** goods and services which have a high-impact on the environment throughout their life-cycle (e.g.: bus fleet, charging and supply infrastructures, cleaning services, lubricants).
- **Budgetary significance:** goods and services with greater weight in the company's costs.
- **Potential to influence the market:** products, goods and services in the company that may have greater potential to influence the market (e.g.: sustainable mobility, economies of scale, size...).

3. ALIGN THE COMPANY'S INTEGRATED MANAGEMENT POLICY WITH OUR GREEN AND SUSTAINABLE PROCUREMENT APPROACH.

4. COMMUNICATE AND RAISE AWARENESS AMONG COMPANY EMPLOYEES:

- Procurement Department
- Health and Safety Department
- Equipment and Maintenance Department
- Transport and Mobility Systems Management and Planning Department
- Legal Department.

GREEN AND SUSTAINABLE PROCUREMENT PRACTICES @ TUB

We also took into account other relevant factors in the selection of goods and services subject to tenders with environmental criteria:

- **LOCAL MUNICIPALITY PRIORITIES:**

Decarbonize our city, reduce our environmental impact in the city, improve our environmental performance.

- **MARKET AVAILABILITY:**

We examine the market to assess if there are companies that offer goods and services with less environmental impact and/or have relevant environmental certifications and labels (EMAS, ISO 14001 ...).

- **COSTING SIGNIFICANCE:**

Consider life cycle costs and/or cost of ownership (energy consumption costs)

GREEN AND SUSTAINABLE PROCUREMENT PRACTICES @ TUB

DO / EXECUTE (2017 – 2021)

1. ESTABLISH TARGETS AND AWARD CRITERIA (SELECTION CRITERIA, TECHNICAL SPECIFICATIONS AND CONTRACT PERFORMANCE CLAUSES)

OVERALL OBJECTIVES:

- 40% of pre-contractual procedures for the acquisition of goods or services identified as priority include environmental criteria (2017 – 2021);
- 40% of the financial amount associated with pre-contractual procedures for the acquisition of goods and services identified as priority have pre-contractual procedures that include environmental criteria.

GREEN AND SUSTAINABLE PROCUREMENT PRACTICES @ TUB

DO / EXECUTE (2017 – 2021)

SPECIFIC OBJECTIVES FOR SOME GOODS AND SERVICES (E.G.):

- **Fleet renewal:**
 - By 2020, 30% of our fleet will be renewed with electric or low-carbon vehicles (electric-powered and natural gas vehicles);
 - 70% of the fleet will be object of special hygienisation and sanitization procedures (Green Wash).

OPERATIONAL TARGETS:

- Employees directly involved in the procurement process will receive training.

ENVIRONMENTAL SPECIFICATIONS OR ENVIRONMENTAL AWARD CRITERIA:

- Environmental management systems (e.g. EMAS; ISO 14001);
- Labels (EU ecolabel, energy consumption label);
- Environmental technical capacity;
- Test reports and certificates.

GREEN AND SUSTAINABLE PROCUREMENT PRACTICES @ TUB

DO / EXECUTE (2017 – 2021)

EVALUATE TENDERS ACCORDING TO LIFE CYCLE COSTING (LCC) OR COST OF OWNERSHIP:

- Purchase price and all associated costs (delivery, installation, etc);
- Operating costs (energy consumption and maintenance)
- End-of-life costs.

SETTING CONTRACT PERFORMANCE CLAUSES:

- Energy and water efficient equipment (e.g. electric chargers and sanitation equipment services).

GREEN AND SUSTAINABLE PROCUREMENT PRACTICES @ TUB

DO / EXECUTE (2017 – 2021)

2. TRAIN AND GUIDE EMPLOYEES TO HAVE COMPETENCIES TO:

- Integrate environmental considerations into tendering procedures;
- Define environmental criteria and technical contract requirements according to national or EU legislation;
- Evaluate and verify the environmental statements of competitors or environmental labels of their products and services (e.g. environmental management systems: EMAS or ISO 14001);
- Evaluate evidences of the competitor's environmental performance;
- How to assess life cycle costs or cost of ownership as part of the award process.



100%
MOVIDO CIVE
A ELETRICIDADE

100% ELÉTRICO
ZERO EMISSÕES

EMISSIONS
ZERO

TRANSPORTES
URBANOS DE BRAGA

POS-UR 2020

BUS FLEET RENEWAL PPROCUREMENT PROCESS– GPP APPROACH @ TUB

FLEET OF VEHICLES:

- Assessed and reviewed our fleet needs;
- Prioritised the replacement of older and heavily polluting vehicles;
- Lowest possible greenhouse gas emissions – including CO₂ emissions;
- Latest EURO norms (EURO VI) for emissions of particulates and NOx (Nitrogen Oxide).

BENEFITS:

- Cost savings (energy cost savings and energy efficiency)
- Community health benefits
- Improved urban environment

BUS FLEET RENEWAL PPROCUREMENT PROCESS– GPP APPROACH @ TUB

RENEWAL OF OUR FLEET

SUSTAINABLE PUBLIC TRANSPORTATION

- ✓ Reduce our environmental impact in the city
- ✓ Reduce greenhouse emissions
- ✓ Reduce average fleet age (~19 years)
- ✓ Reduce fuel consumption (diesel)
- ✓ Improve service quality
- ✓ Increase fleet reliability
- ✓ Improve noise performance
- ✓ Improve confort
- ✓ Increase frequency
- ✓ Incorporation of renewable energies
- ✓ Operational efficiency cost savings



ELECTRIC CHARGERS – GPP APPROACH @ TUB

AWARD CRITERIA USED FOR THE SELECTION:

- Most economically advantageous proposal;
- Quality;
- Energy efficiency;
- Savings on use of energy.



SANITIZED AND HYGIENE SERVICES – GPP APPROACH @ TUB

AWARD CRITERIA USED FOR THE SELECTION:

- Environmental technical specifications;
- Environmental management systems (ISO 14001);
- Using tests and certificates;
- Savings on use of water.

BENEFITS:

- Cost savings
- Water consumption
- Promotes public health
- Positive visibility of the company to the community

03.12.18 / SEGUNDA-FEIRA / Braga / DIÁRIO DO MINHO 07
www.diariodominho.pt

PARCERIA COM A EMPRESA BRACARENSE NANO GREEN WASH

TUB pioneiros na higienização de autocarros

Os Transportes Urbanos de Braga (TUB) iniciaram, em setembro, uma parceria com a empresa Nano Green Wash. Segundo a empresa municipal, a Nano Green Wash, do concelho de Braga, apresentou aos TUB -uma solução prática, cómoda, para higienização das viaturas da sua frota-.

«Os TUB são a primeira empresa de transportes públicos, a nível nacional, a implementar esta solução amiga do ambiente, dando o seu contributo na promoção da higiene e saúde pública, bem como na importante contribuição para a redução do consumo de água», refere a empresa.

A higienização também conhecida por desinfeção, é um dos métodos mais



Higienização do habitáculo do motorista



Higienização das áreas comuns do autocarro

indicados após a limpeza, porque é responsável pela eliminação de micro-organismos vivos, como ácaros e bactérias, sendo os maiores causadores de doenças, alergias cutâneas e respiratórias.

A limpeza e higienização realizadas pela Nano Green Wash conta com

produtos de alta qualidade, bem como equipamentos especializados e eficientes para retirar de forma eficaz, toda a sujidade das várias superfícies, do interior do autocarro, através da projeção de vapor de água, realizada por técnicos treinados e experientes.

Preventivo nos riscos da saúde pública, através do suave, seco e puro vapor do sistema, ao ser penetrado nas superfícies de mais difícil acesso, inclusive tubagem de ar condicionado, este sistema não necessita de recorrer ao uso de produtos químicos, já que atinge

temperaturas de esterilização. Este processo permite ainda uma redução no consumo habitual de água, para o mesmo serviço, em cerca de 95%, sem produzir águas residuais.

Um componente fundamental da higiene é a verificação da eficácia da limpeza e higienização. A

Nano Green Wash efetua em todas as suas intervenções, medições, que aferem o grau de higienização obtida, em que os resultados são publicados em cada autocarro.

Neste momento, cerca de 30 % da frota já foi abrangida por este processo e está previsto abranger a restante frota durante 2019. «É crescente a nossa preocupação no domínio da sustentabilidade ambiental, bem como no conforto e saúde pública dos nossos passageiros e estamos certos de que a adoção deste tipo de práticas vai fazer com que a empresa seja ainda mais valorizada e reconhecida pelos nossos clientes. Queremos continuar a melhorar o serviço ao cliente», refere a administração.

SUSTAINABLE MOBILITY ON PUBLIC TRANSPORTATION

European Union Funding Programme – Cohesion Fund

TUB POSEUR I



UNIÃO EUROPEIA
Fundo de Coesão

SUSTAINABLE MOBILITY ON PUBLIC TRANSPORTATION

POSEUR – CALL 07-2016-71 – 1ST SUBMISSION

SUBMISSION: April 2017

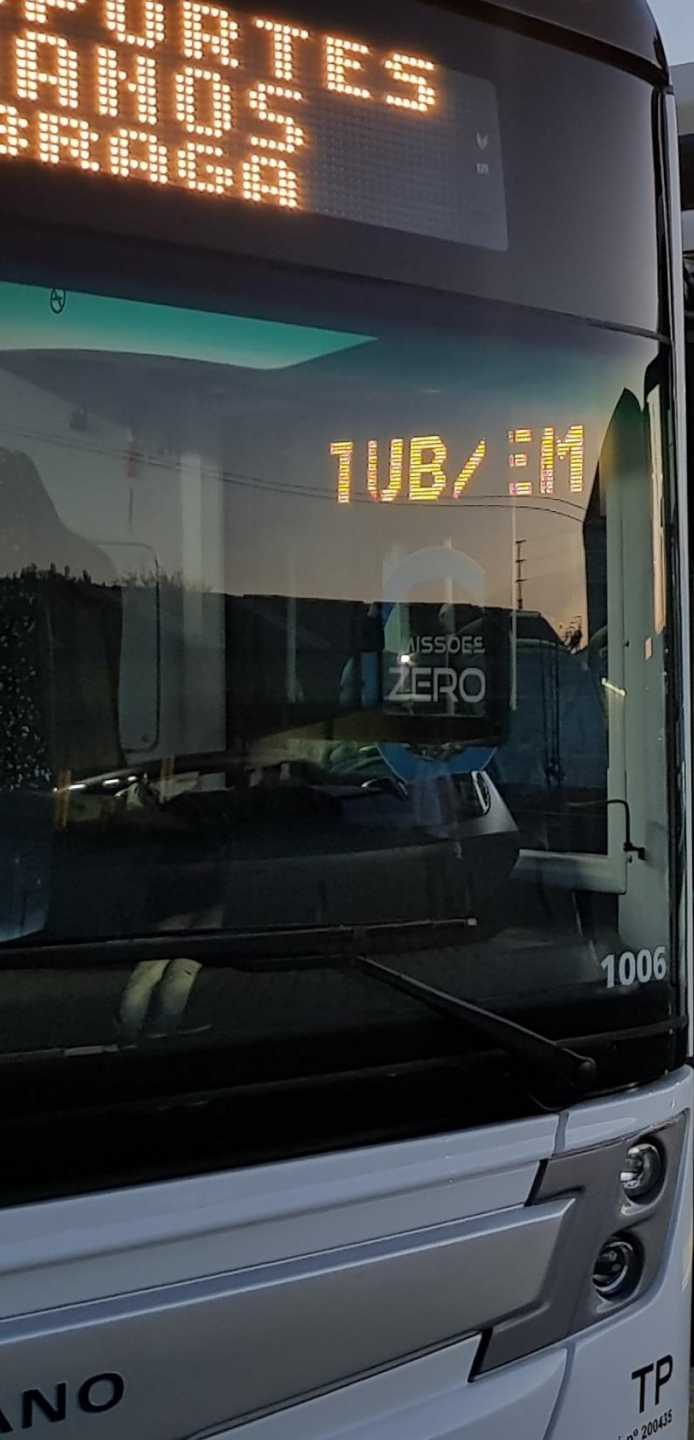
TOTAL INVESTMENT: 3 million euros

EUROPEAN FUNDING: 1,4 million euros

SIX ELECTRICAL-POWERED BUSES (CAETANO E.CITY GOLD)

- 12 meters
- Low floor
- Capacity for 85 passengers
- 150kWh battery capacity
- 160kW Siemens Water Cooled Engine
- Max. Torque: 2500 N.m.





SUSTAINABLE MOBILITY ON PUBLIC TRANSPORTATION

POSEUR – CALL 07-2016-71 – 1ST SUBMISSION

SIX QUICK CHARGERS MAGNUMCAP/KLC SUPPORTED BY A DEDICATED ELECTRICAL INFRASTRUCTURE

- 1 Quick Charger of 150 kW
- 5 Chargers of 40 kW
- 1 Electrical Power Transformation (1000 kVa / 15000 V / 750 V)
- Electrical and communication network





1

TVB

POREUR® #2020

TVB 2

POREUR® #2020

TVB 3

POREUR® #2020

TVB 4

POREUR® #2020

TVB 5

POREUR® #2020

SUSTAINABLE MOBILITY ON PUBLIC TRANSPORTATION

European Union Funding Programme – Cohesion Fund

TUB POSEUR II



UNIÃO EUROPEIA
Fundo de Coesão

SUSTAINABLE MOBILITY ON PUBLIC TRANSPORTATION

POSEUR – CALL 07-2018-10 – 2ND SUBMISSION

SUBMISSION: October 2018

TOTAL INVESTMENT: 10 million euros

EUROPEAN FUNDING: 3,6 million euros

SUSTAINABLE BUS FLEET AND INFRASTRUCTURES:

- 7 buses with 100% electric propulsion
- 7 electric charging stations
- 25 natural gas buses
- 1 natural gas (GNC) station infrastructure



SUSTAINABLE MOBILITY ON PUBLIC TRANSPORTATION

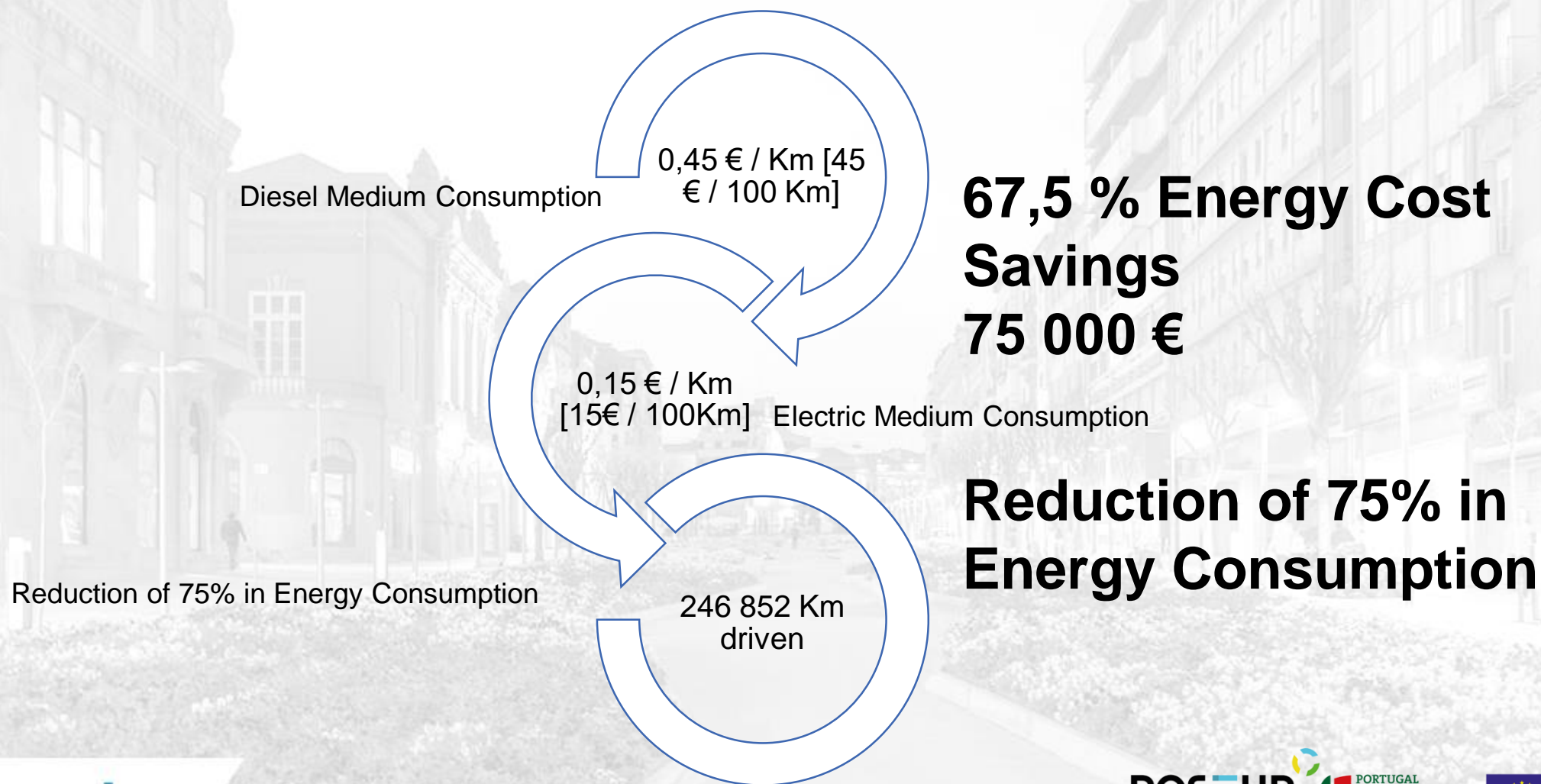
POSEUR – Call 07-2018-10 – contracted

- 7 electrical buses + 25 CNG
- 7 quick chargers + CNG Gas Stations
- Reduction of 528.63 tonCO₂eq
- Primary Energy Reduction of 95,79 toe
- Energy Reduction Ratio -71,12%

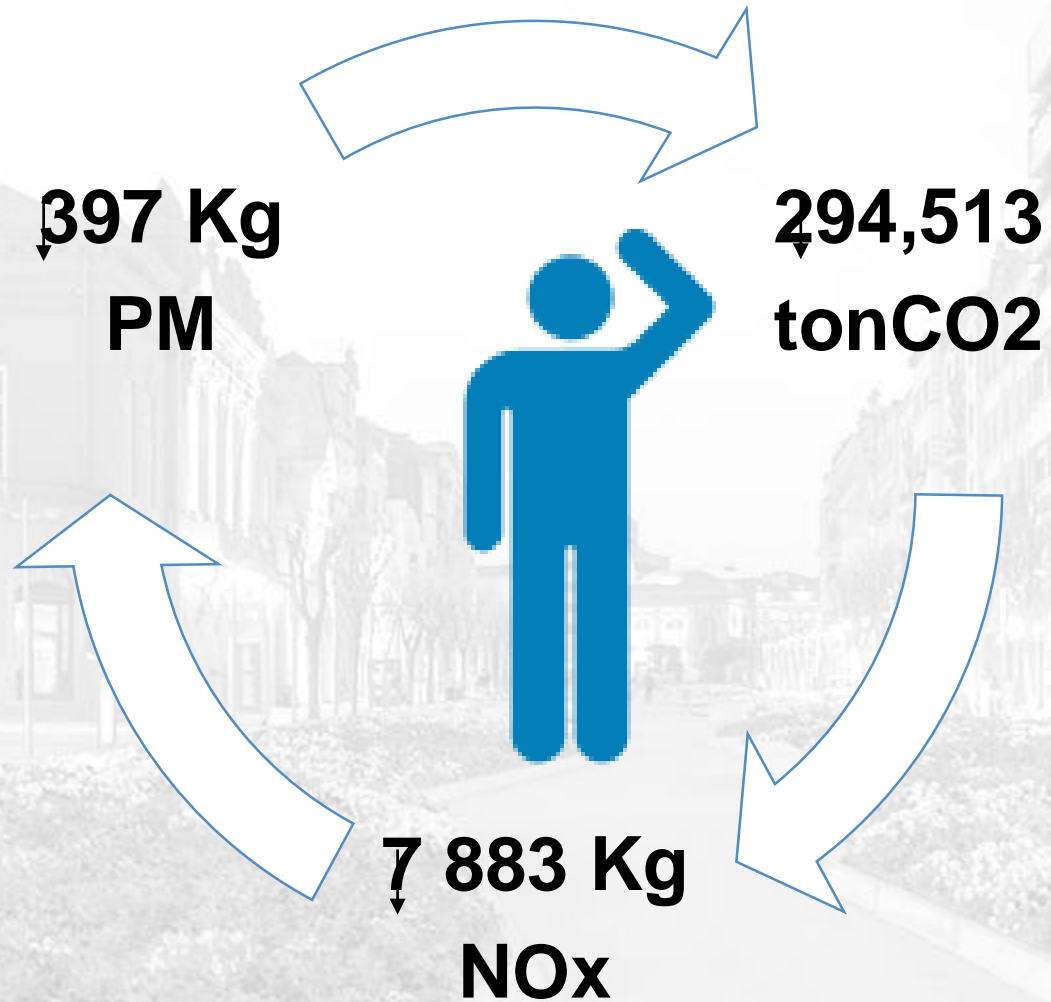
*tonne of oil equivalent



SUSTAINABLE MOBILITY ON PUBLIC TRANSPORTATION



SUSTAINABLE MOBILITY ON PUBLIC TRANSPORTATION



BARRIERS TO LOCAL PUBLIC AUTHORITIES TO PROMOTE GPP?

DIFFICULTIES IN INTRODUCING ENVIRONMENTAL REQUIREMENTS IN OUR PUBLIC PROCUREMENT SYSTEM:

- Do they affect the awarding process?
- Do they comply with legal obligations?
- Are there companies in a given sector with relevant environmental certifications and labels that simultaneously make us obey the criteria of public procurement: competition, non-discrimination, equal treatment, transparency and proportionality?
- Are there suppliers and providers in the market that meet the green and sustainable requirements that I intend to have on my goods and services?
- Do companies understand the economic viability of green purchasing based on life cycle costs?
- Is there environmentally preferable alternative available on the market?
- Are there suitable alternatives on the market with less environmental impact?

BARRIERS TO LOCAL PUBLIC AUTHORITIES TO PROMOTE GPP?

- Will the green alternatives we wish to introduce be cost neutral or will they affect my budget?
- Do companies providing goods and services in our market comply with technical specifications that take into account environmental impacts throughout the goods' life cycle?
- Are companies prepared to comply with selection criteria based on environmental technical capacity or environmental and supply chain management measures and accept the exclusion of bidders who do not comply?
- Is business in Portugal prepared to accept the exclusion of bidders who are not in compliance with environmental legislation?
- Or that we, as public entities, use selection criteria based on environmental certifications (EMAS; ISO 14001)?

SOLUTIONS FOR LOCAL PUBLIC AUTHORITIES TO PROMOTE GPP

- Public companies are facing **the same problems** in the application of ecological criteria in public procurement.
- There is a clear advantage in **establishing network connections and developing cooperation activities** with other public entities or bodies.
- **Sharing information** related with the environmental and sustainability criteria used in the award process or even with the ecological products available on the market.
- **Collaborative efforts in the municipal context** (City council, local business sector companies, intermunicipal communities (CIM)).

SOLUTIONS FOR LOCAL PUBLIC AUTHORITIES TO PROMOTE GPP

WE ARE COMMITTED AND WORKING TOWARDS ACHIEVING

ISO 20400:2017 SUSTAINABLE PROCUREMENT CERTIFICATION



20400:2017

Green Companies for Green Regions and Green Cities



Thank you