

This is not an ADB material. The views expressed in this document are the views of the author/s and/or their organizations and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy and/or completeness of the material's contents, and accepts no responsibility for any direct or indirect consequence of their use or reliance, whether wholly or partially. Please feel free to contact the authors directly should you have queries.

Measuring the impact of Sustainable Procurement

José Manuel Melero

&

Aníbal Steinmetz

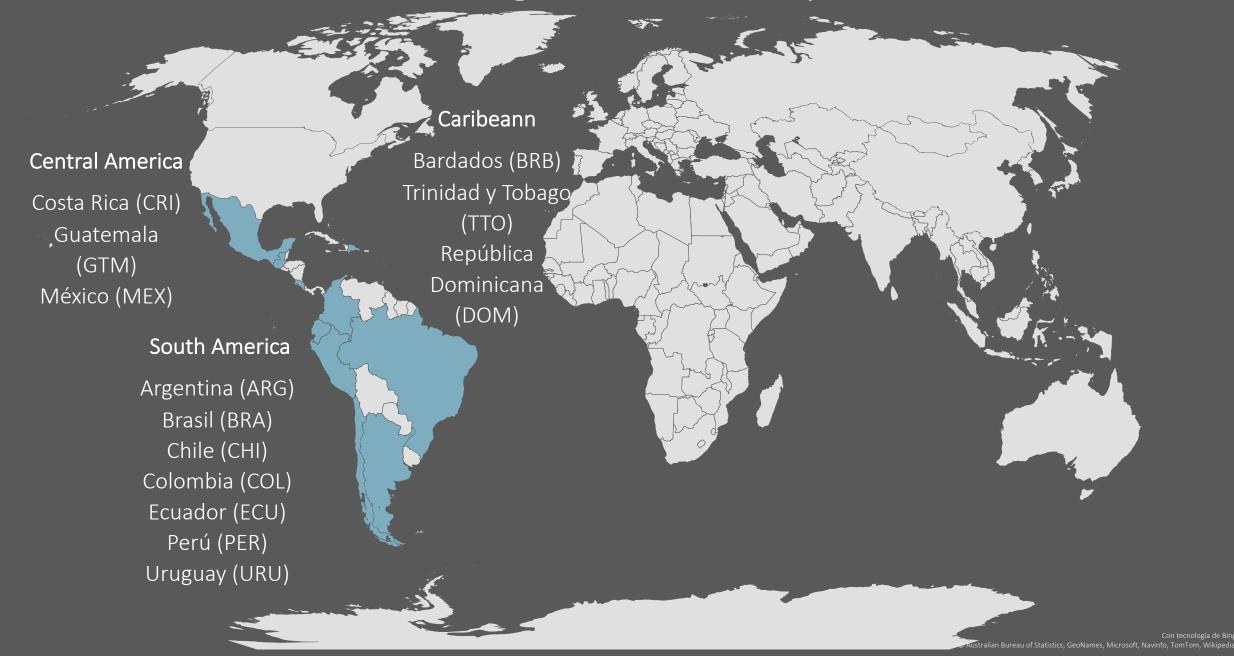
jmelero@cicloambiente.cl

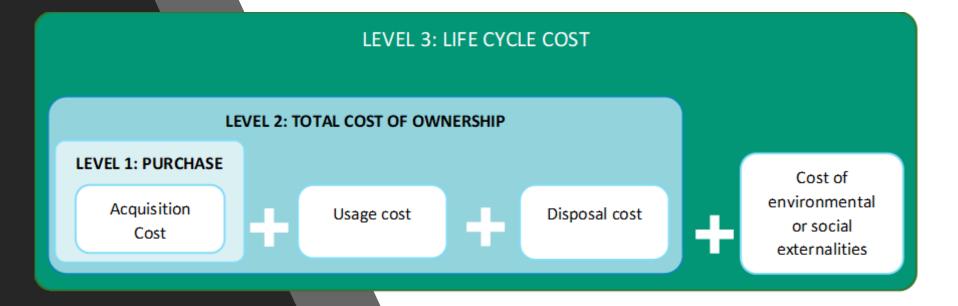


Sustainable Public Procurement (SPP) Challenges

- Public buyers have a high workload.
- SPP may require high knowledge of local laws and technical aspects.
- Economic impact of sustainable criterion in SPP may not assessed.
- Sustainable criterion sometimes are too complicated to be implemented.
- Suppliers may not be prepared to comply with sustainable criterion.
- Lack of coordination among public departments.
- Price is not considering all costs behind products and services.

Studies assessing economic impact of SPP





Life Cycle costs (CCV)

Car Example:



Level 1: Price + charger

Level 2: Usage, maintance and and repair.

Level 3: Health and GHG externalities.

| Product | Country | Environmental Criterion | CCV Level | Results local studies | How is it applied? |
|---------|------------|--|-----------|--|--|
| Lights | Costa Rica | 1) Light Efficiency.2) Useful life. | Level 2 | Fluorescents are 77% cheaper than incandescent. LED is 89% cheaper than incandescent. | Compulsory under national standards |
| | Chile | Light Efficiency. Useful life. | Level 3 | Fluorescents are 27% cheaper than incandescent. LED is 70% cheaper than halogen. | Compulsory under national standards |
| | Perú | Light Efficiency. Useful life. | Level 2 | Estimated savings of \$0.16 USD per month for every Led Light. In public lighting, cheaper between 29% and 52% with LED lights | Compulsory |
| | Colombia | 1) Removal and final disposal | Level 2 | Estimated saving of 1.34% of total property ownership. \$70 USD per 2,235 lights. | It is Voluntary and is promoted. |

| Product | Country | Environmental Criterion | CCV Level | Results local studies | How is it applied? |
|----------|---------|------------------------------|-----------|---|--|
| PC | Chile | Energy star certification | Level 3 | Savings of \$43.66 USD / unit (CTP) in 4 years. Savings of \$54.50 USD / unit (level 3) in 4 years. | Voluntary. It is promoted by public office certification (Green state) |
| Printers | Chile | Energy star certification | Level 3 | Savings of \$2.02 USD / unit (CTP) in 4 years. Savings of \$2.32 USD / unit (level 3) in 4 years. | Voluntary. It is promoted by public office certification |
| | | | | | (Green state) |

| Product | Country | Environmental Criterion | CCV Level | Results local studies | How is it applied? |
|-------------------------|----------|----------------------------|-----------|--|---|
| Cars SUV diesel | Chile | Euro 6 | Level 3 | More expensive in \$511 USD / unit per 100,000 km, Level 3. Savings of \$151 USD in externalities (health) | Voluntary. Promoted by guidances and public office certification (Green state – Estado Verde) |
| Car Pickup diesel | Chile | Low CO2 emissions | Level 3 | Cheaper in \$1,635 USD / unit per 100.000 km. | Voluntary. Promoted by guidances and public office certification (Green state – Estado Verde) |
| Electric | Chile | Electric propulsion | Level 3 | There are many aspects to consider. Car cost, rechargeable stations and technical knowledge | Voluntary. It is promoted by MINENERGIA and electromobility platforms. |
| | | | | | Example JUNAEB |
| | Colombia | Electric propulsion | Level 2 | Economic financial benefits of \$1,20 millions of USD. | Voluntary. |

| Product | Country | Environmental Criterion | CCV Level | Results local studies | How is it applied? |
|------------------------|--|---|------------------------------|--|--|
| single-use plastics | Chile | Reusable in coffee breaks services. | Level 2 | Service cost is the same for most cases. | Voluntary. Promoted by guidances and public office certification (Green state) |
| | District or Municipality in México | Reusable | Level 2 | Savings of 1,42 USD for every 300 ceramic plastics usage vs EPS disposable plates. | Compulsory |
| Paper | Chile | Sustainable Forest certifications (SFC) | Level 1 | SFC paper is cheaper:Letter: \$0,17 USD / unit.Legal: \$0,09 USD / Unit. | Voluntary. Promoted by guidances and public office |
| | | Recycled (50%) | Level 3 | Price is more expensive (\$0,03 USD / unit). | certification (Green state) |
| | | | | At level 3 is cheaper (\$0,01 USD / unit) | |
| wc | Costa Rica | Water Efficiency | Level 2* *Price not included | Savings of \$6.694 USD in 10 years (, \$669 USD anually). | Voluntary. |

Voluntary, self assessment

Each institution decides the integration of SPP. Tools and technical support is provided (Guidances)

Example of Sustainable Purchase guidances in Chile.

Example of technical support for the purchase of electric vehicles in Colombia.

Example of environmental labels for buying more sustainable (Green State in Chile). Compulsory

Analysis and conviction is generated at the central level, freeing the entities from the evaluation.

Example, countries energy efficiency standards.

Obligatory purchase of low Emissions vehicles in Costa Rica.

Homologation process in Perú.

Conclusions

- ✓ When Sustainable Public procurement considers all costs, not just price, their applicability is easier.
- ✓ In some products economic benefits is demonstrable. In other products assessment is more complicate.
- ✓ There are limited economic assessments for SPP In Latin-American.
- ✓ Eco-Labels may be considered in SPP., however just Brazil and Colombia have a Type 1 eco-label.
- ✓ SPP has a low level of application in Latin America.

Measuring the impact of Sustainable Procurement

José Manuel Melero

&

Aníbal Steinmetz

jmelero@cicloambiente.cl

