There is a huge opportunity with all those resources.
DIGITAL TRANSFORMATION OF THE ENVIRONMENTAL FLOWS

TACKLING DOWN RESOURCE SCARCITY

valopes
{val - valor} + {opes - recursos}
ENVIRONMENTAL INFORMATION
Industrial Metabolisms

{val - valor} + {opos - recursos}
ACCOUNTABILITY & TAX INCENTIVES

stricter regulation
Manual process
based on pencil
and paper
spreadsheets
LACK OF TRANSPARENCY

cost overruns

saving

returns

{val - valor} + {opes - recursos}
LACK OF TRANSPARENCY

- Risk mitigation
- Reputation
- Carbon footprint
- Water footprint
- Customer loyalty

{val - valor} + {opos - recursos}
¿what we do?

Platform that enables companies to manage their environmental flows while providing them the capacity to take data driven decisions for mitigating environmental impact and improving their economic sustainability.
Our Solution

**Document**
*ERP of environmental flows*
Capture and processing of environmental data in the organizations.

**Connect**
*Integration of Actors*
Secure the traceability along the recycling value chain.

**Reporting**
*Data Warehouse and data stream bestpoke*
Fuente de Datos para la generación de reportes de inteligencia de negocios.
Track record
OUR PLATFORM APPLIES IN EVERY COUNTRY

UNIVERSAL LANGUAGE
SCALING STRATEGY

Big generator y managers
Guilds
Partners
Specialized fairs
Sales funnel
Metabolismo Industrial

{val - valor} + {opes - recursos}
Benefits
Transformación Digital

Operational efficiency (increase productivity) → 60-90%
Cost reduction → ~35%
Income generation → ~3x
Improves information quality → 95%
Industrial Metabolism

Waste Manager | Transformations (Traceability)

{val - valor} + {opes - recursos}
Metabolismo Industrial

Main features

1. Capture of consumption of natural resources and generation of waste streams and by-products
2. Audit of activity and registration of data
3. Upload documents
4. Administration and reports
Generation & Management

waste streams & by-products
Consumption energy by source

{val - valor} + {opes - recursos}
Consumption
water by source
Consumption
raw material

{val - valor} + {opos - recursos}
Waste Manager
| Transformer
Waste Manager / Transformator

Main features

1. Registration of transport services
2. Traceability of byproducts point to point
3. Reports of waste management and transportation
4. Type of sites
5. Logistic programing
Sites Manager

Area Manager

HSE Executives
{val - valor} + {opes - recursos}
Ranking Rendimiento por Establecimiento

<table>
<thead>
<tr>
<th>Tipo de Establecimiento</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Centro Distribución 1</td>
<td>482.50</td>
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<tr>
<td>Planta</td>
<td>170.21</td>
</tr>
<tr>
<td>Bodega</td>
<td>168.34</td>
</tr>
<tr>
<td>Proyectos</td>
<td>0.00</td>
</tr>
<tr>
<td>Centro de Ventas 2</td>
<td>0.00</td>
</tr>
<tr>
<td>Centro de Ventas 1</td>
<td>0.00</td>
</tr>
<tr>
<td>Oficina 1</td>
<td>0.00</td>
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</tbody>
</table>

Rendimiento por tipo de Residuo

<table>
<thead>
<tr>
<th>Establecimiento</th>
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<tbody>
<tr>
<td>Todos</td>
<td>822.05</td>
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</tbody>
</table>

Rendimiento promedio
valopes
Reporting

Productivity
Sustainability
Circular Economy
Observatory

{val - valor} + {opes - recursos}
i- Servicio de diseño y Manutención
Diseño de reportes

ii- Despliegue y manutención FD
Despligue Fuente Datos

Datos en la Nube

Desarrollo reporte

API

Manutención Fuente Datos

Reporte interactivo

{val - valor} + {opos - recursos}
Productivity Reporting
Sustainability Reporting

Emisiones de CO2
Total Emisiones CO2 es 214,669.68.

Ranking Contribución por año
Top 3 Planta total Emisiones CO2 son:
- BARRANQUILLA con 54,417.31
- BOGOTA con 51,636
- TOCANCHICA con 43,295

Emisiones por Electricidad
0 146,874
68.41% 214,669.68

Emisiones por gas natural
0 67,649
31.51% 214,669.68

Emisiones por ACPM
0 140.68
0.06% 214,669.68

(val - valor) + (opes - recursos)
Circular Economy Reporting
Observatory

VALOPES
OPPORTUNITY

Agriculture  
Mining  
Energy  
Construction  

Retailers  
Logistics  
Health  
Food  

TAM  
13,935,304  
Latam  

SAM  
903,795  
8.5 Billions  

SOM  
63,266  
596 Millions  

[val -> value] + [opes -> resources]  CONFIDENTIAL  
www.valopes.com  
EMIS 2017
## IMPACT MEASUREMENT SDG-12

RESPONSIBLE CONSUMPTION PRODUCTION

<table>
<thead>
<tr>
<th></th>
<th>2019</th>
<th>2020</th>
<th>2024 (P)</th>
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</thead>
<tbody>
<tr>
<td>Tons waste</td>
<td>38.191</td>
<td>567.178</td>
<td>36,418.924</td>
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<tr>
<td>Tons hazardous</td>
<td>239</td>
<td>4.501</td>
<td>324.734</td>
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<tr>
<td>Tons recycle</td>
<td>6.168</td>
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<td>final disposition</td>
<td>1.868</td>
<td>15.124</td>
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# Traction

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<thead>
<tr>
<th></th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
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<tbody>
<tr>
<td><strong>Clients</strong></td>
<td>1</td>
<td>3</td>
<td>10</td>
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<tr>
<td><strong>Facilities</strong></td>
<td>27</td>
<td>300</td>
<td>1000</td>
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<tr>
<td><strong>Income</strong></td>
<td>cop 26 Mill usd 8500</td>
<td>cop 309 Mill usd 80,000</td>
<td>cop 1000 Mill usd 250,000</td>
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<tr>
<td><strong>Markets</strong></td>
<td>![Colombia Flag]</td>
<td>![Colombia Flag]</td>
<td>![Colombia Flag] ![Chile Flag]</td>
</tr>
</tbody>
</table>

[val -> value] + [opes -> resources] CONFIDENTIAL

www.valopes.com
FOUNDING TEAM

Luis Ortega
CTO
+11 years developing digital solutions for banks & corporations in LATAM

Octavio Torres
CEO
+10 years of management and sustainability consultancy in Chile, Colombia, Norway & Italy

Santiago Mujica
CDO
+10 years of product & digital services design in Chile, Finland & Australia
# Landscape

<table>
<thead>
<tr>
<th>Technology Integration</th>
<th>Automation</th>
<th>Digitization</th>
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</thead>
<tbody>
<tr>
<td>Blockchain</td>
<td>AMP Robotics</td>
<td>Z</td>
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<tr>
<td>Machine Learning</td>
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<tr>
<td>BOT</td>
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<tr>
<td>IOT</td>
<td>Compology</td>
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<td>Mobile</td>
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<td>Cloud Base</td>
<td>INTLEK</td>
<td>Poligabi</td>
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<td>Websites</td>
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<tr>
<td>Paper &amp; Spreadsheets files</td>
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<td></td>
</tr>
<tr>
<td>Generation</td>
<td>Waste Mgt.</td>
<td>Traceability</td>
</tr>
</tbody>
</table>

**Dynamic Generation**

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Partnerships

(val - valor) + (opes - recursos)
Experience

{val - valor} + {opos - recursos}
HELP US TO TACKLE DOWN
THE RESOURCE SCARCITY

Contact me: octavio@valopes.com