An average E-pay system versus the TokenTap
<table>
<thead>
<tr>
<th><strong>System</strong></th>
<th>Mechanical</th>
<th>Digital</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General</strong></td>
<td></td>
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<tr>
<td>Simple &amp; robust. Low tech. All complexity removed. When electronic tracker fails water dispensing is fully operational. No electronic power needed to perform main functionality (water dispensing)</td>
<td></td>
<td>High tech - electronic failure can result in downtime. Solar panels or other form of electricity needed to perform main functionality (water dispensing)</td>
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<tr>
<td><strong>Suitable for:</strong></td>
<td>Community managed systems and professional service models</td>
<td>Professional service provision model (at scale)</td>
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<tr>
<td><strong>Dispensed volume</strong></td>
<td>Fixed (1 jerrycan)</td>
<td>Variable</td>
</tr>
<tr>
<td><strong>Payment</strong></td>
<td>Cheap (plastic or INOX) tokens</td>
<td>Expensive RFID tags</td>
</tr>
<tr>
<td><strong>Data logging</strong></td>
<td>Transactions of water sales &amp; volume with timestamps are logged</td>
<td></td>
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<tr>
<td><strong>Data transfer</strong></td>
<td>Via bluetooth and telephone; No local internet connection needed</td>
<td>Via internet - local internet connection needed</td>
</tr>
<tr>
<td><strong>Data display</strong></td>
<td>Data updates &amp; overviews are sent to email address without costs</td>
<td>Dashboard - often with additional subscription costs</td>
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<tr>
<td><strong>Life cycle cost</strong></td>
<td>(~yearly depreciation + maintenance cost - site specific travel cost)</td>
<td>Depending on brand and set-up: ca. USD 350</td>
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<tr>
<td><strong>Installation</strong></td>
<td>Simple: only pipe of water system needs to be connected</td>
<td>Can be complex - including installation of electronic connections, charge controllers, solar panels, batteries, calibration and programming settings like water price. Complexity differs amongst different alternatives</td>
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<tr>
<td><strong>Maintenance</strong></td>
<td>Low cost: only spare parts at minor cost and no external party needed. Maintenance can be done by local mechanics and with low frequency</td>
<td>Costly: expensive spare parts, more frequent downtime and often third party dependency (incl. travel and personnel cost of provider)</td>
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<tr>
<td><strong>Weight and dimensions</strong></td>
<td>20 kg including dispensing unit and tap, plus tracker. 70x70x40cm</td>
<td>2/3 kg excluding dispensing unit and tap (depending on supplier and brand). Ca 20x20x40cm</td>
</tr>
</tbody>
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