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Transición energética en la 4ta revolución industrial



Universidad
Tecnológica
de Pereira



UNIVERSIDAD
NACIONAL
DE COLOMBIA



Business Model For The Introduction Of Aggregators To Colombian Electricity Distribution Networks, Through Demand Response Programs

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Universidad Nacional de Colombia
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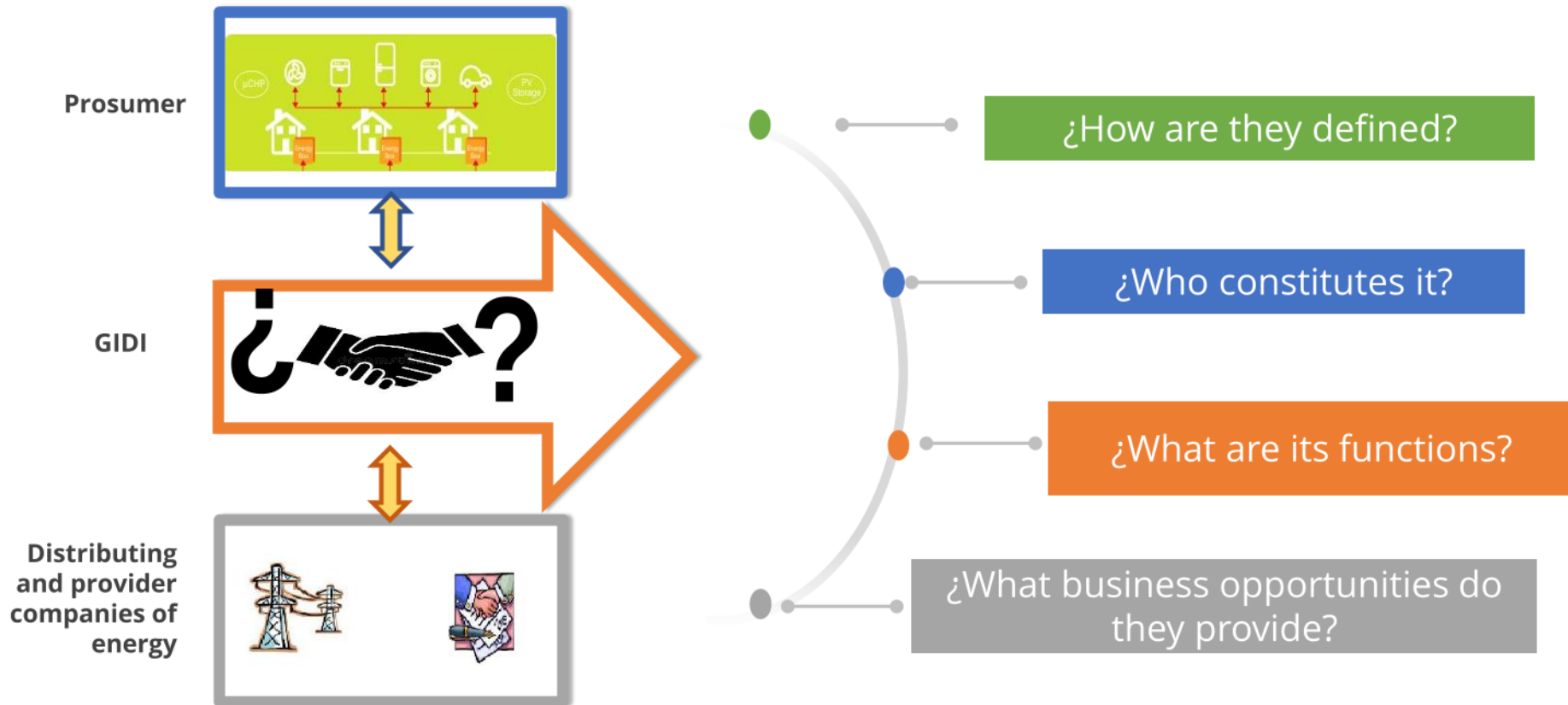
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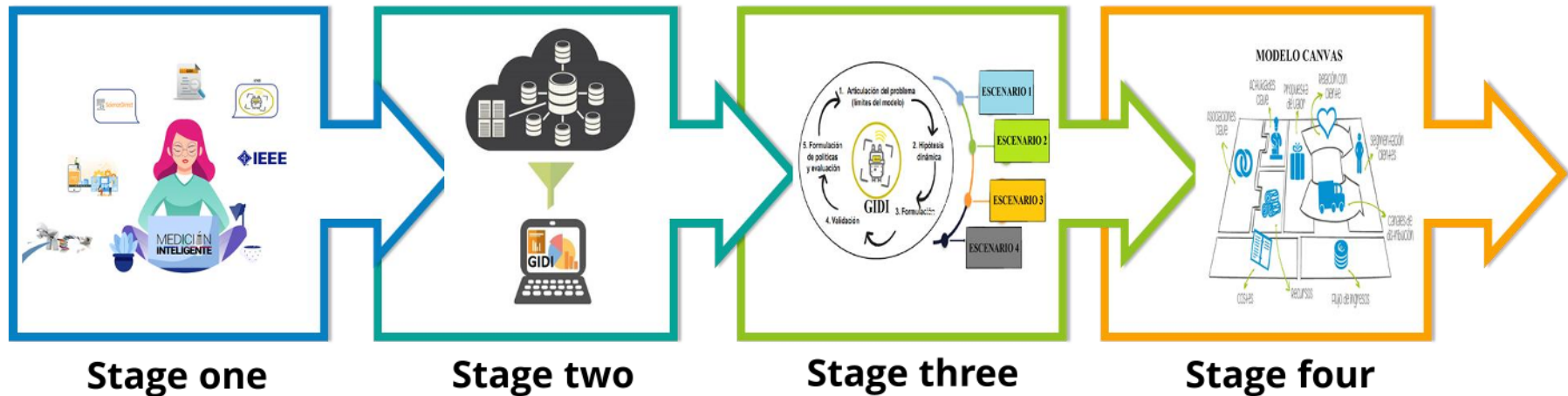
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I. Introduction



II. Methodology



III. Results

Customer Segments	Market Design
<ul style="list-style-type: none">- Smart home- Smart mobility- Smart utilities- Public lighting- Smart storage	<ul style="list-style-type: none">- Virtual Power Plant - VPP<ul style="list-style-type: none">- Retail Market- Blockchain Aggregators

III. Results

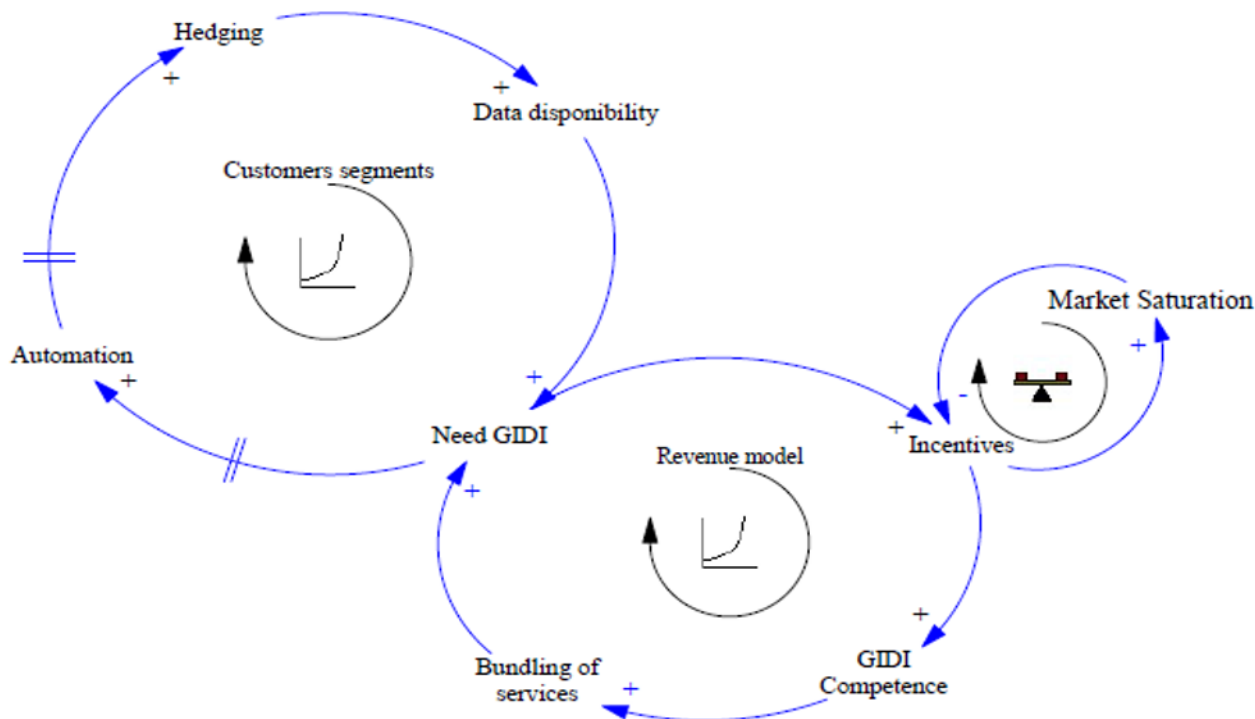


Fig. 1. Causal diagram of the implementation of the GIDI as a business proposal. Source: Own elaboration.

III. Results










<p>Key Partners </p> <p>Consumers / end-users. Networks operators. GIDI agents Control systems providers.</p>	<p>Key Activities </p> <p>Participating in the demand response market. Controlling customers charging systems.</p> <p>Key Resources </p> <p>local control system. Customer databases.</p>	<p>Value Propositions </p> <p>Incentive-based demand response programs</p>	<p>Customer Relationships </p> <p>- Payment system. - Training and consulting service.</p> <p>Channels </p> <p>Communication and control infrastructure. Energy market.</p>	<p>Customer Segments </p> <p>- Consumers. - The network operator .</p>
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Fig. 2. Business model canvas. Source: Own elaboration

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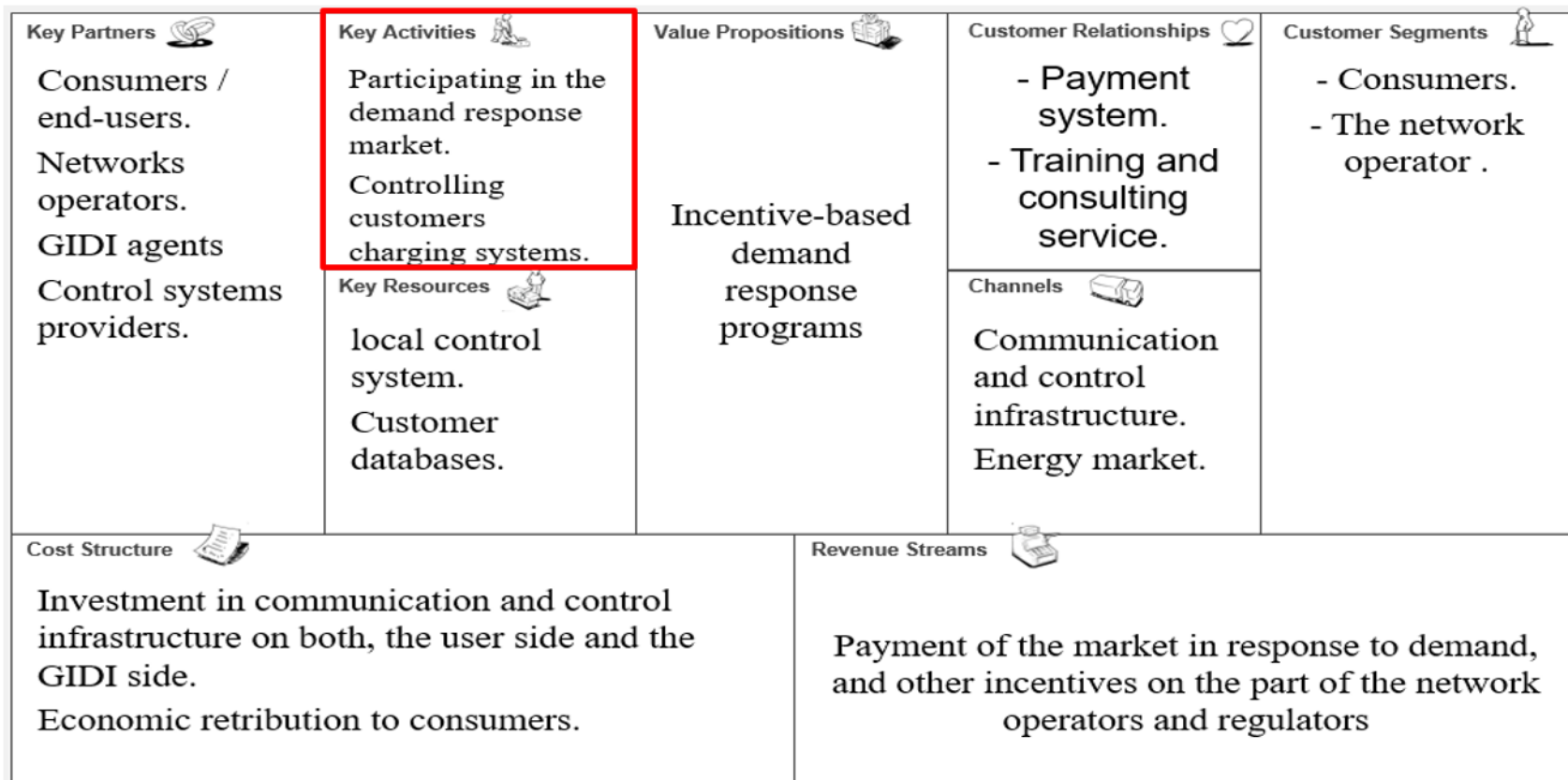


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IV. Conclusions

- Information management takes on a very important role and offers a business opportunity in front of programs of demand response and represents an approach to innovation within the energy market.
- An option to implement in the Colombian electricity system focuses on incentive-based demand response programs.
- To implement and develop a profitable business offer, it is necessary to analyze the characteristics of the electricity network at the end-user level, in such a way that an optimal demand response program can be established depending on the sector.

Thank You
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