



Portus



Driving the intelligent energy revolution



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Tim Lindquist

what we do

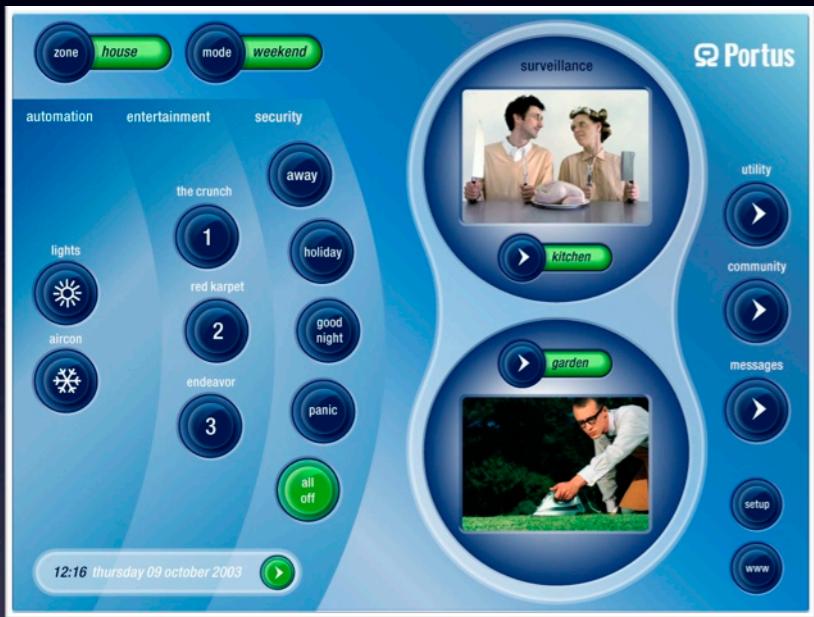


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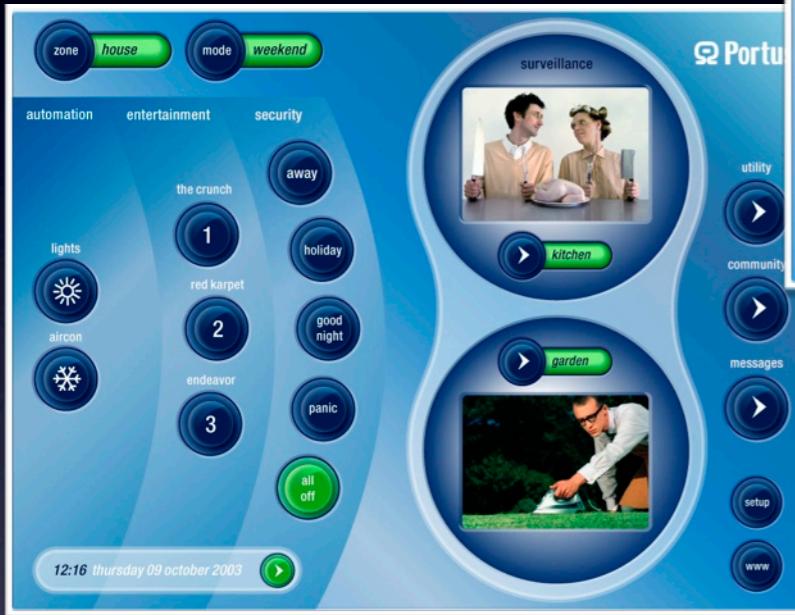


what we do

- Home dashboard

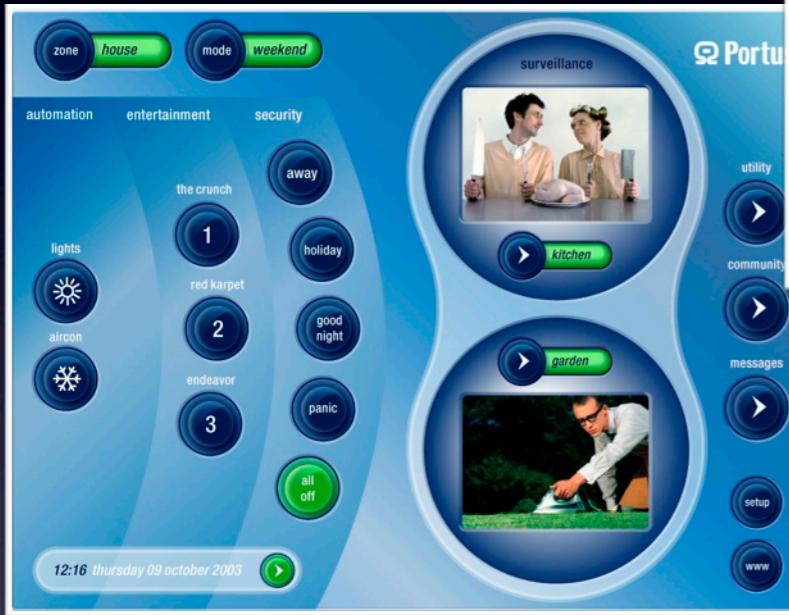


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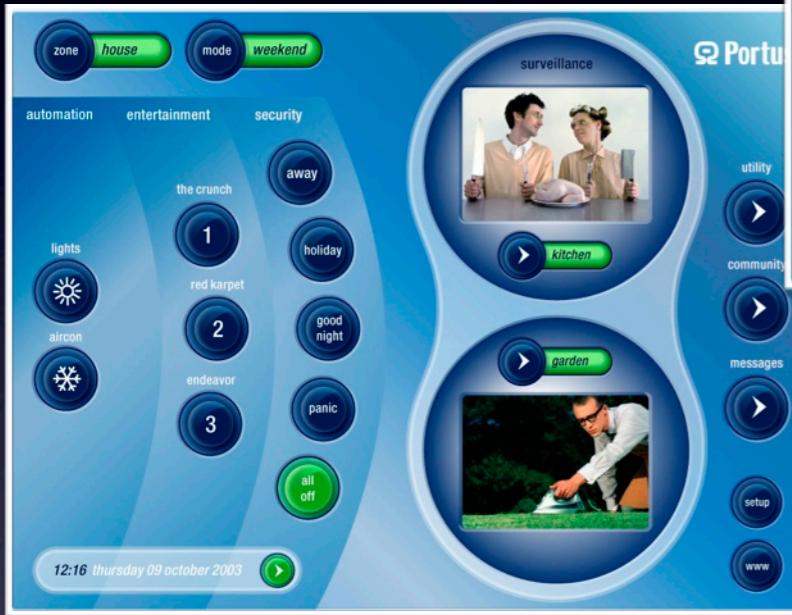
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- Home monitoring

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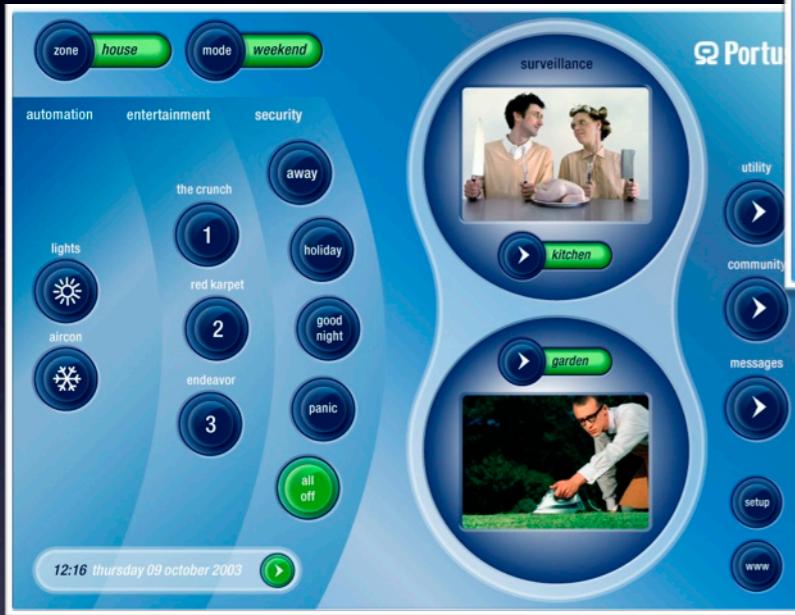
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what we do



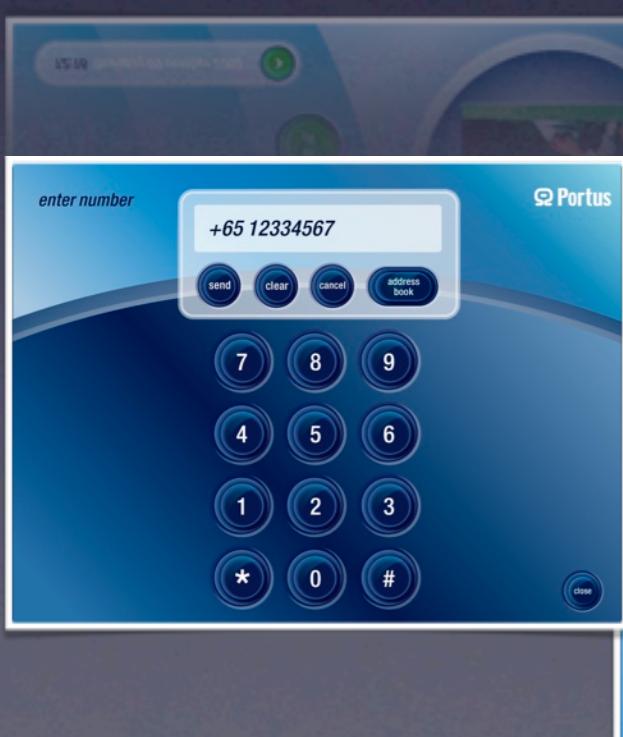
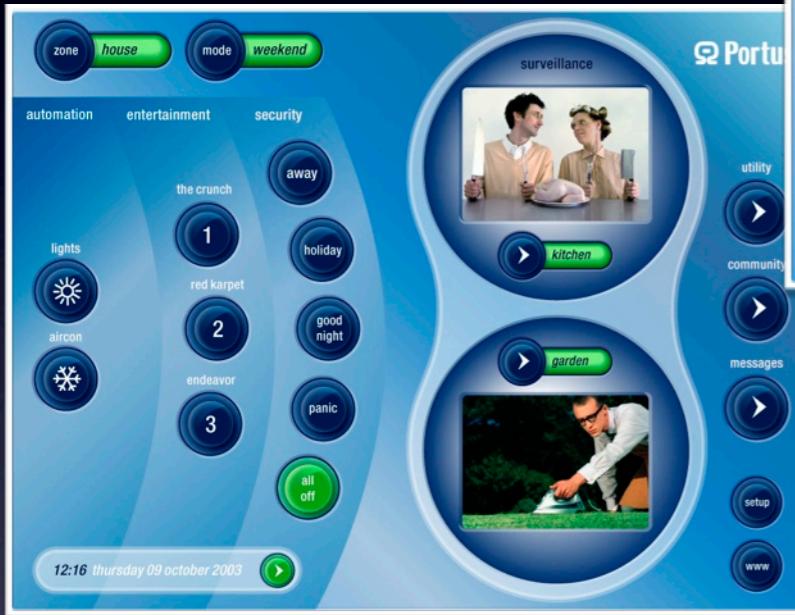
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- Home dashboard
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- Smart grid solutions

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- Term sheet for investment from the Australian Government
- Over \$1 million invested to date

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 - adoption of Smart Grids and Demand Response (DR) will explode in order to mitigate these problems

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 - rising incomes and standards of living combined with increased concern about energy and security are increasing the attractiveness of technologies that promise to enhance the owner's quality of life, while making the most efficient use of energy and providing a sense of security

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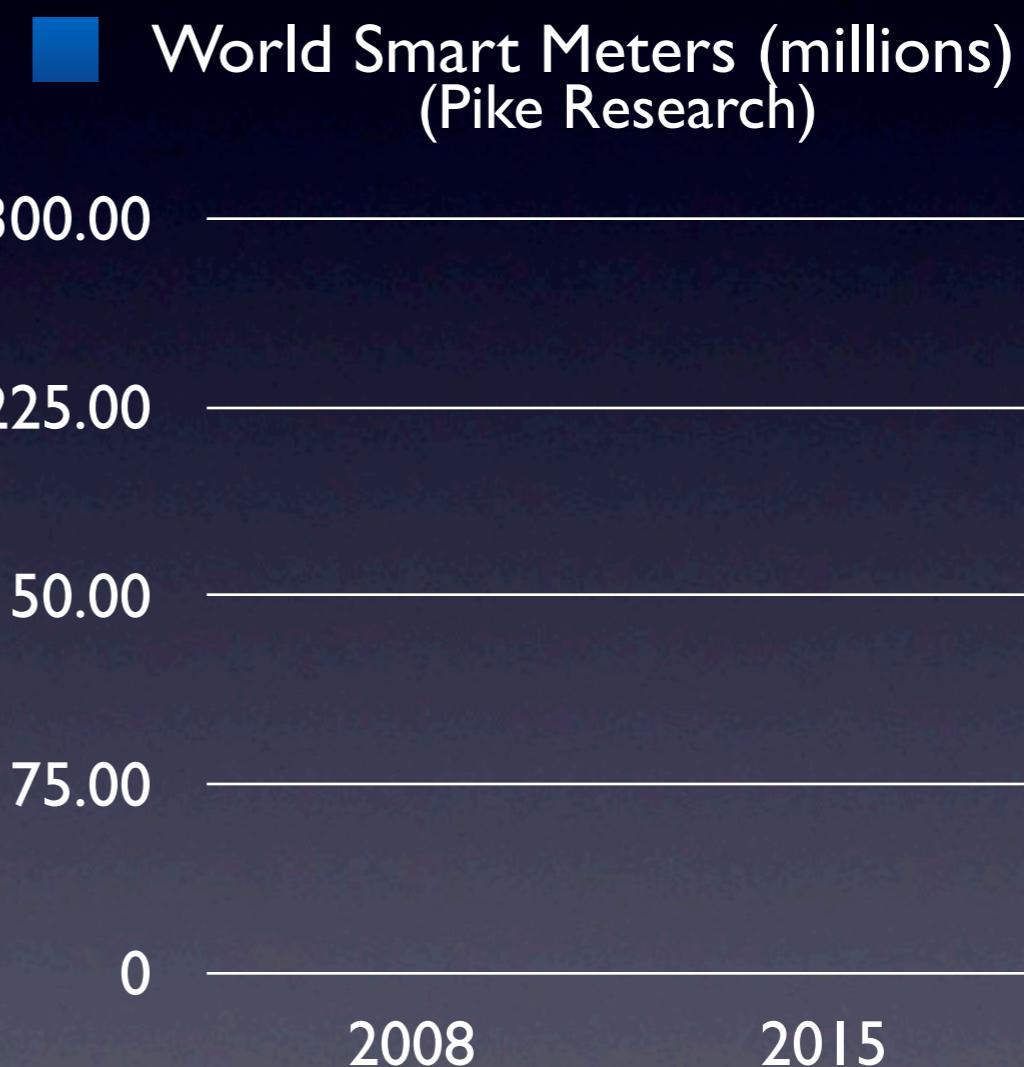
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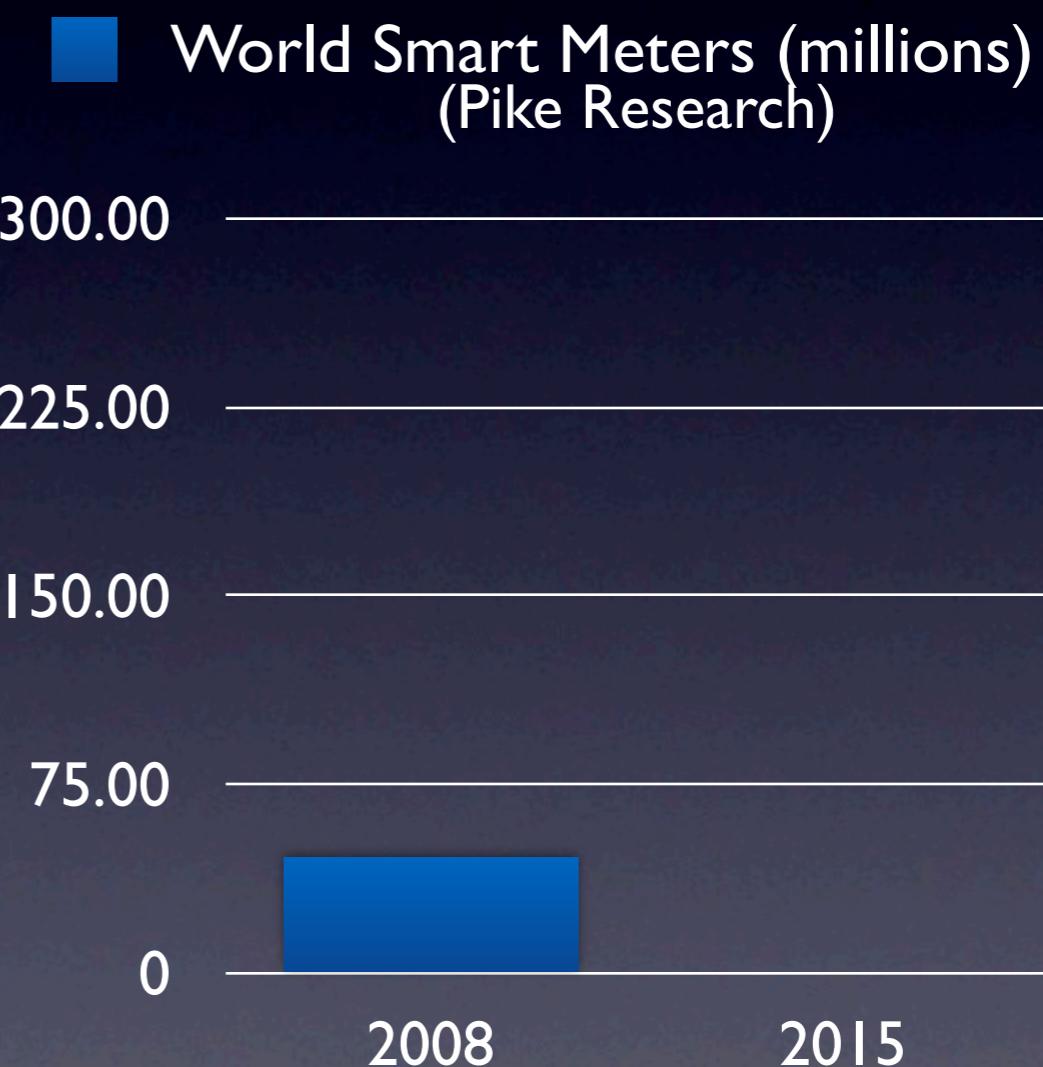
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 - global warming is leading to heightened concern over individuals' carbon footprints and a desire to be able to monitor the impact of key loads at home
 - these trends will be amplified as ETS are introduced around the world, exposing consumers to escalating energy cost pressure

market -smart meters

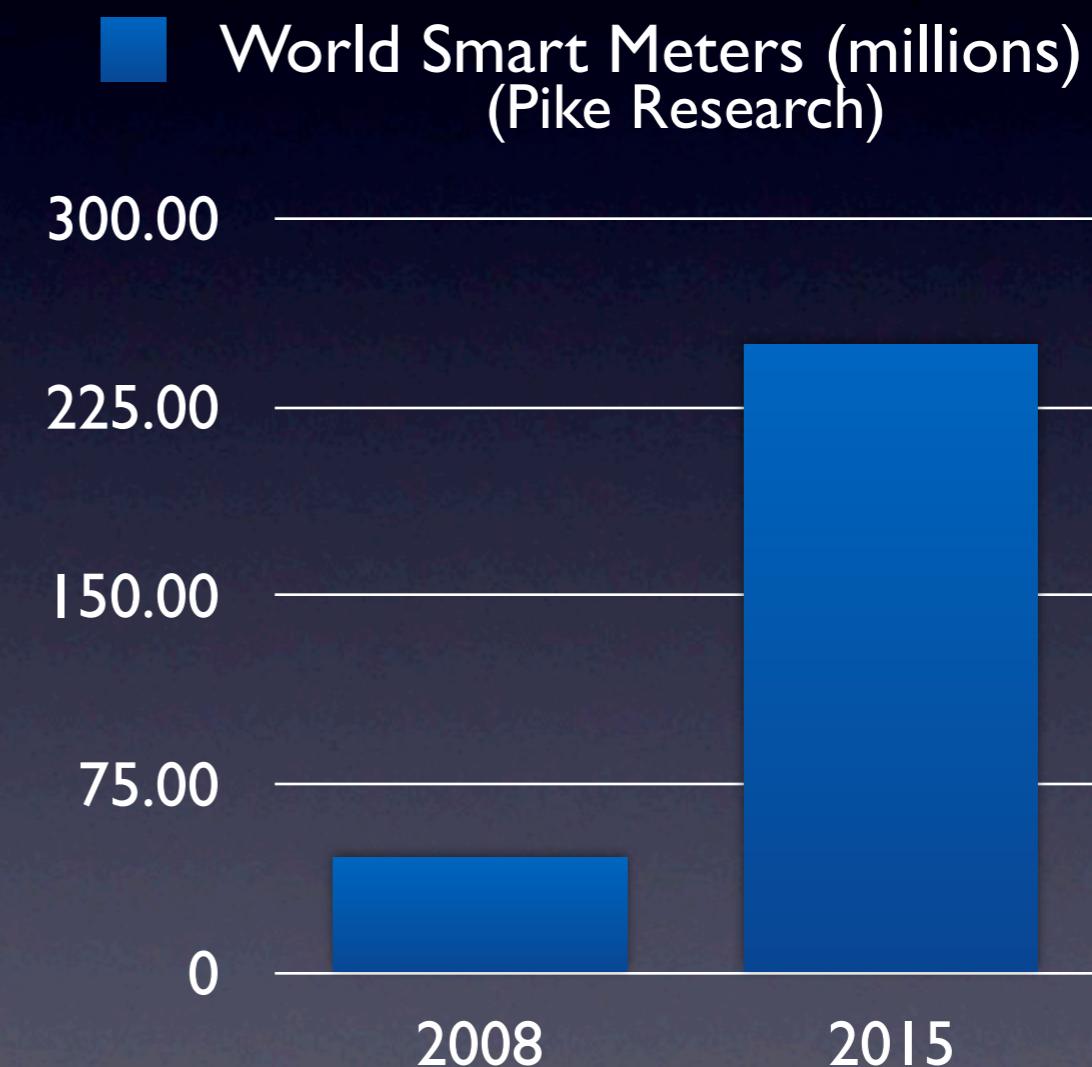
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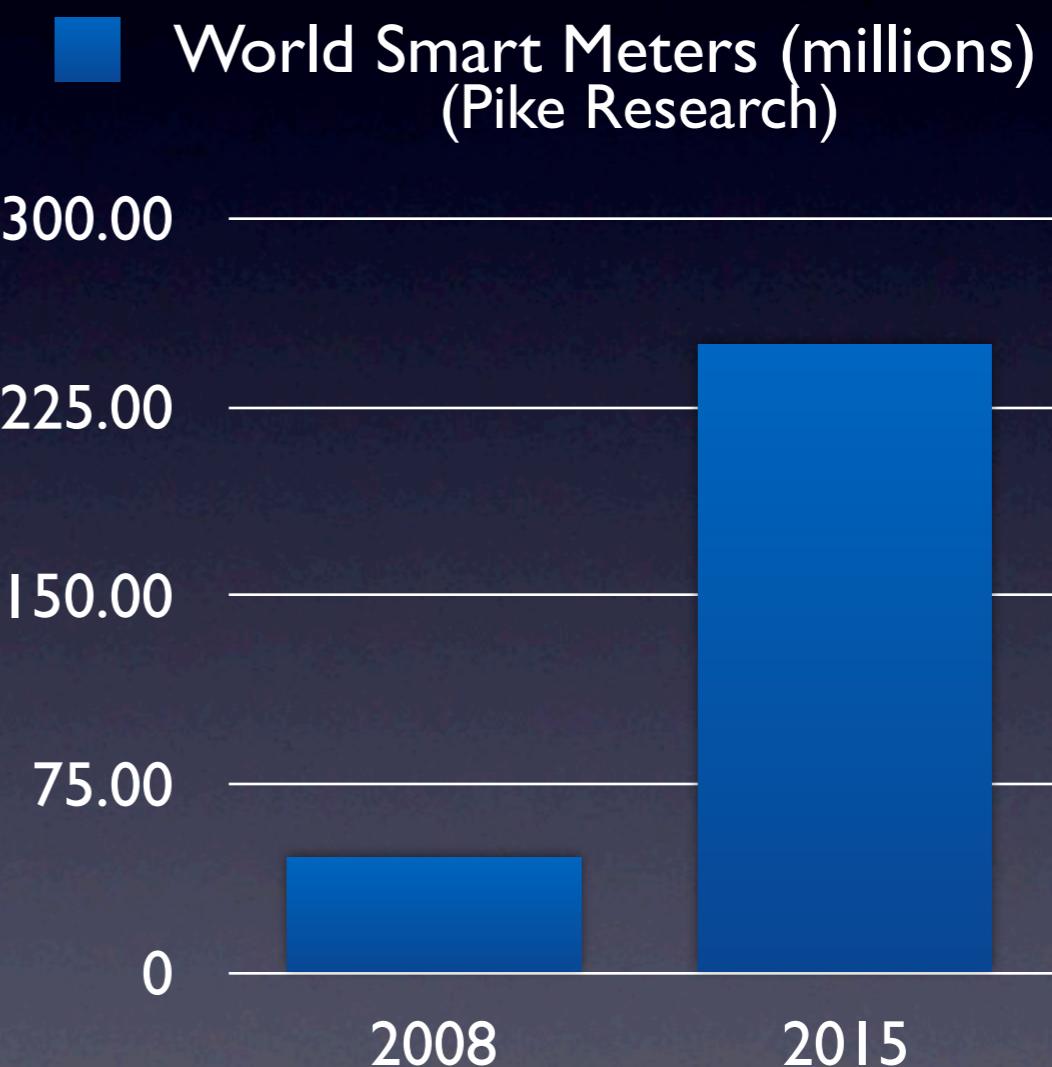


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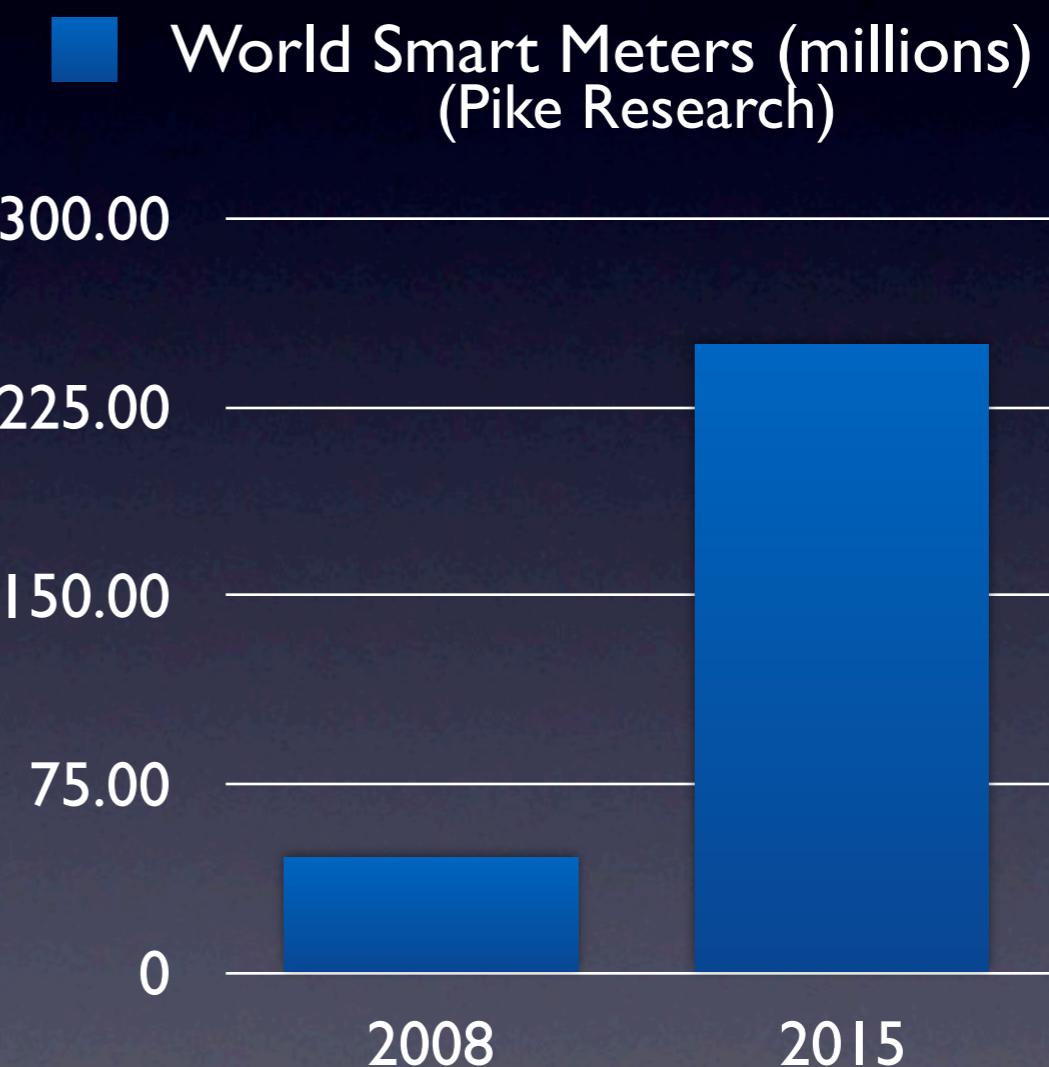
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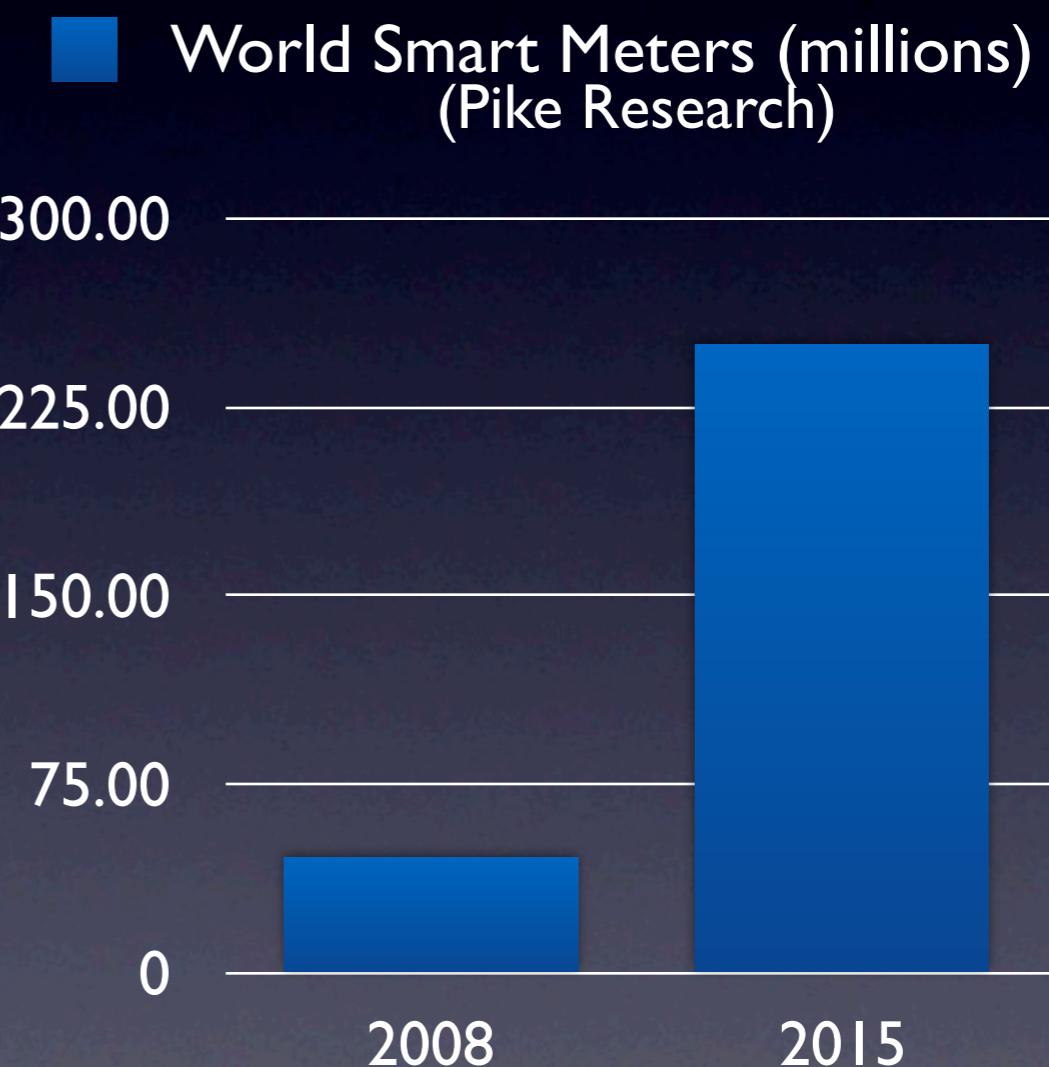
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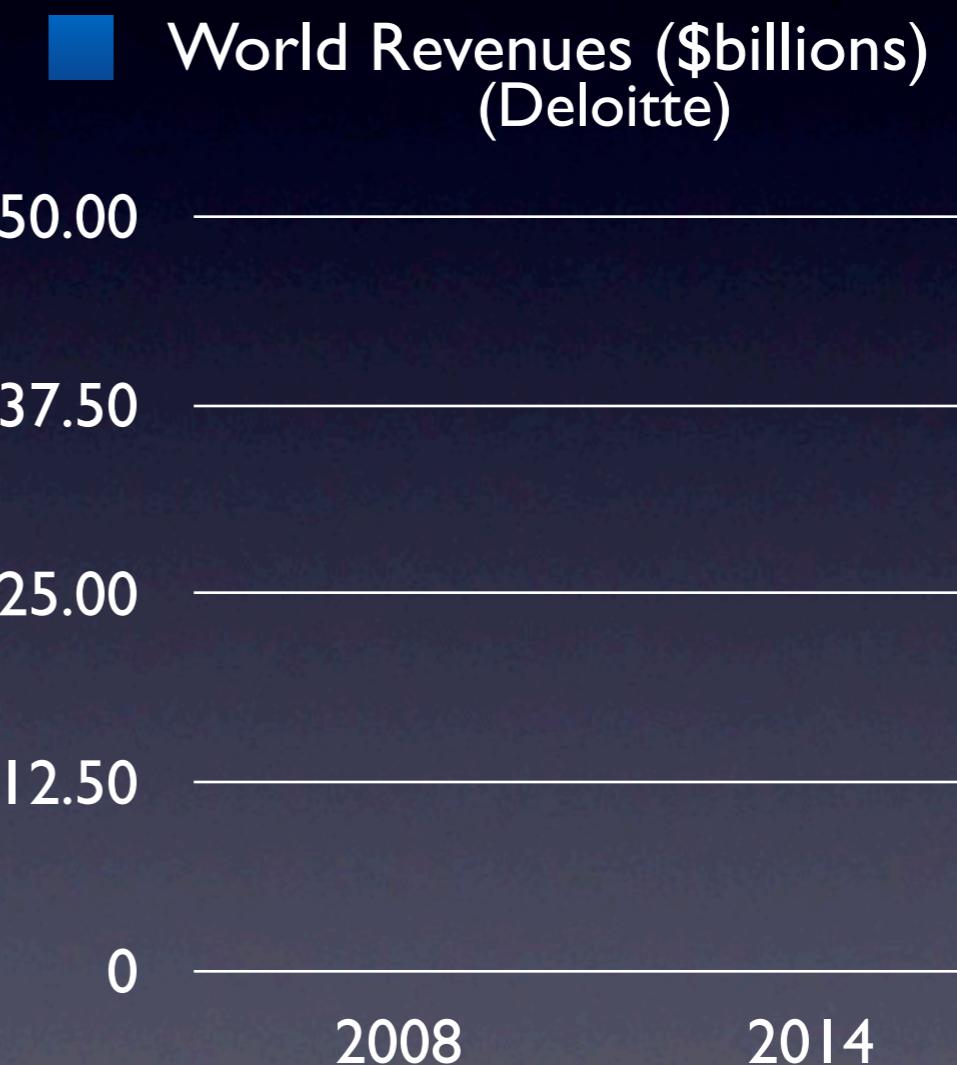
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- Utilities link smart meters with customer portals, Home Area Networks (HANs) and in-home displays (IHDs) to send price signals to customers and to shift peak load



market - smart grid

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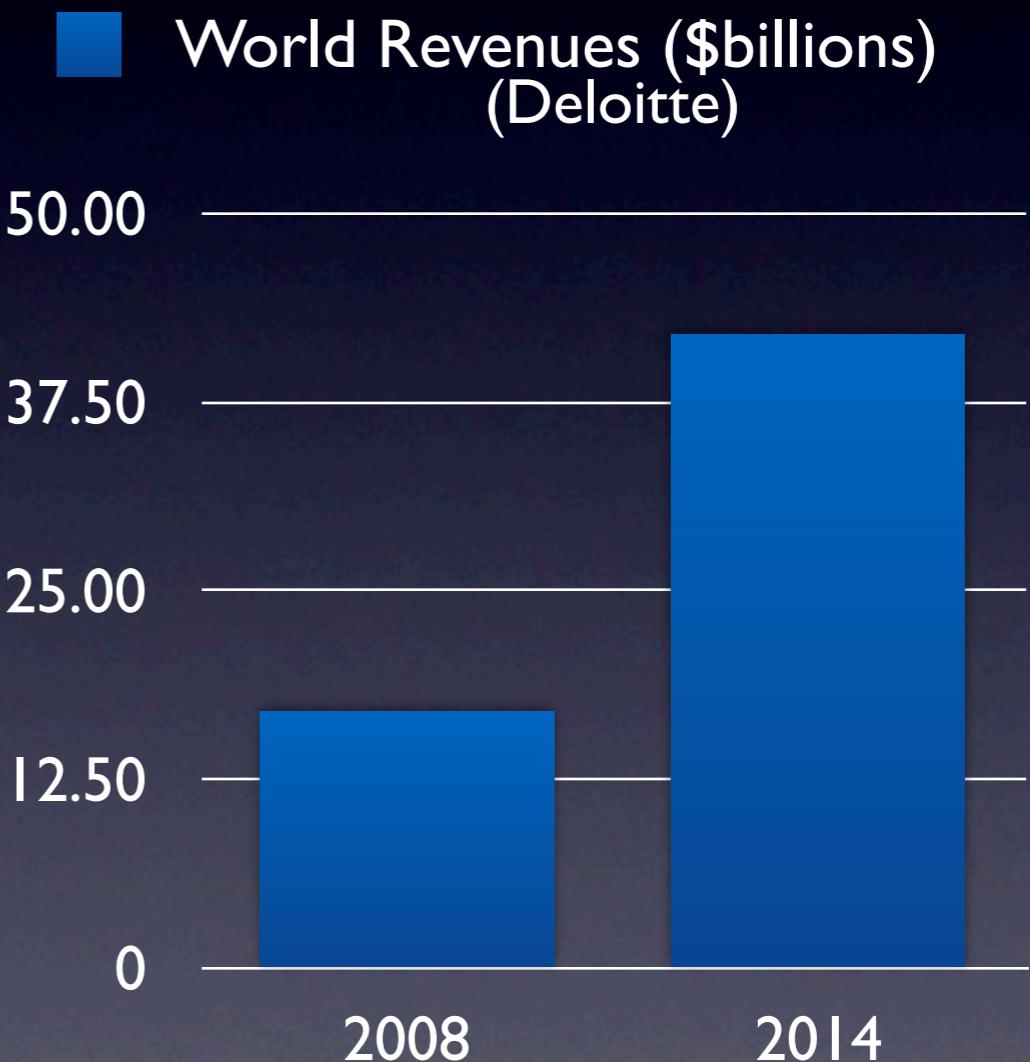


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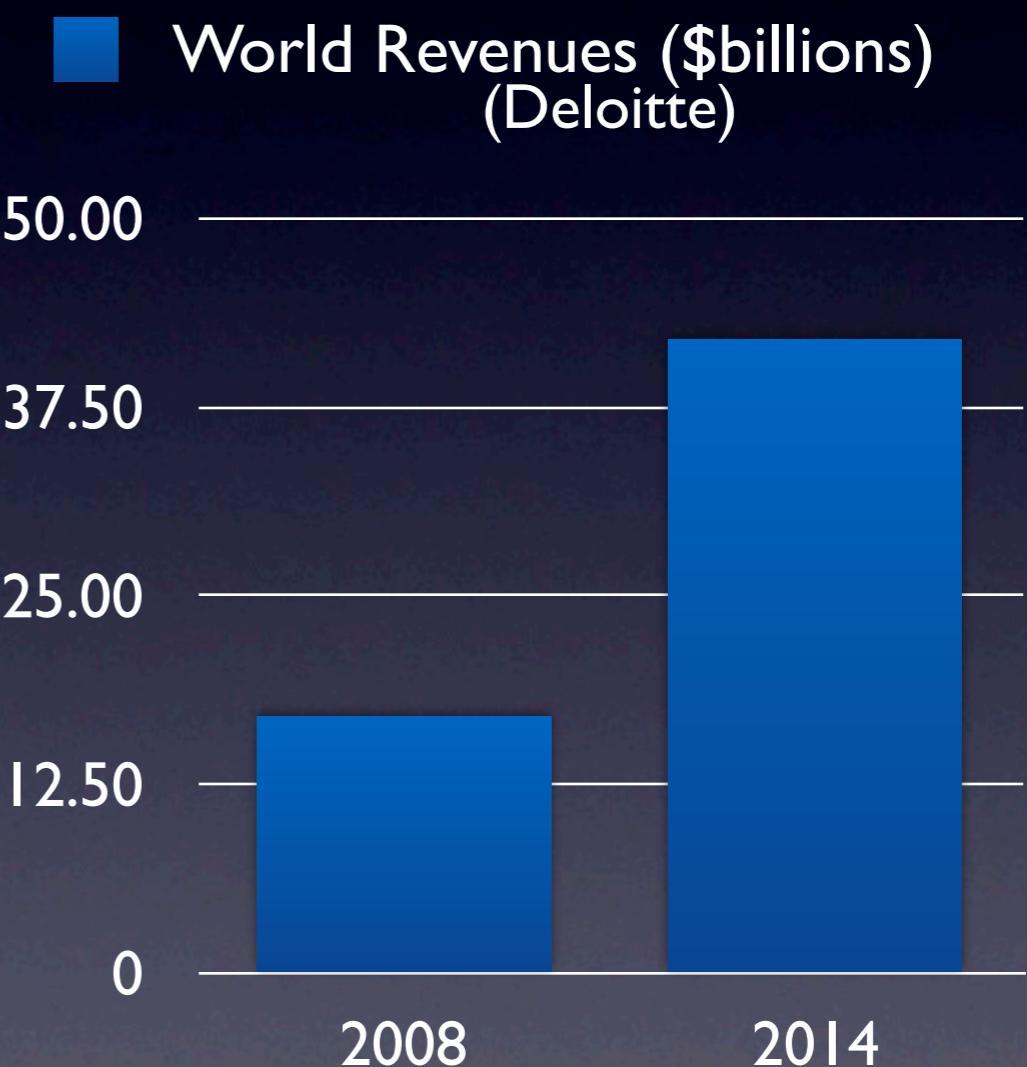
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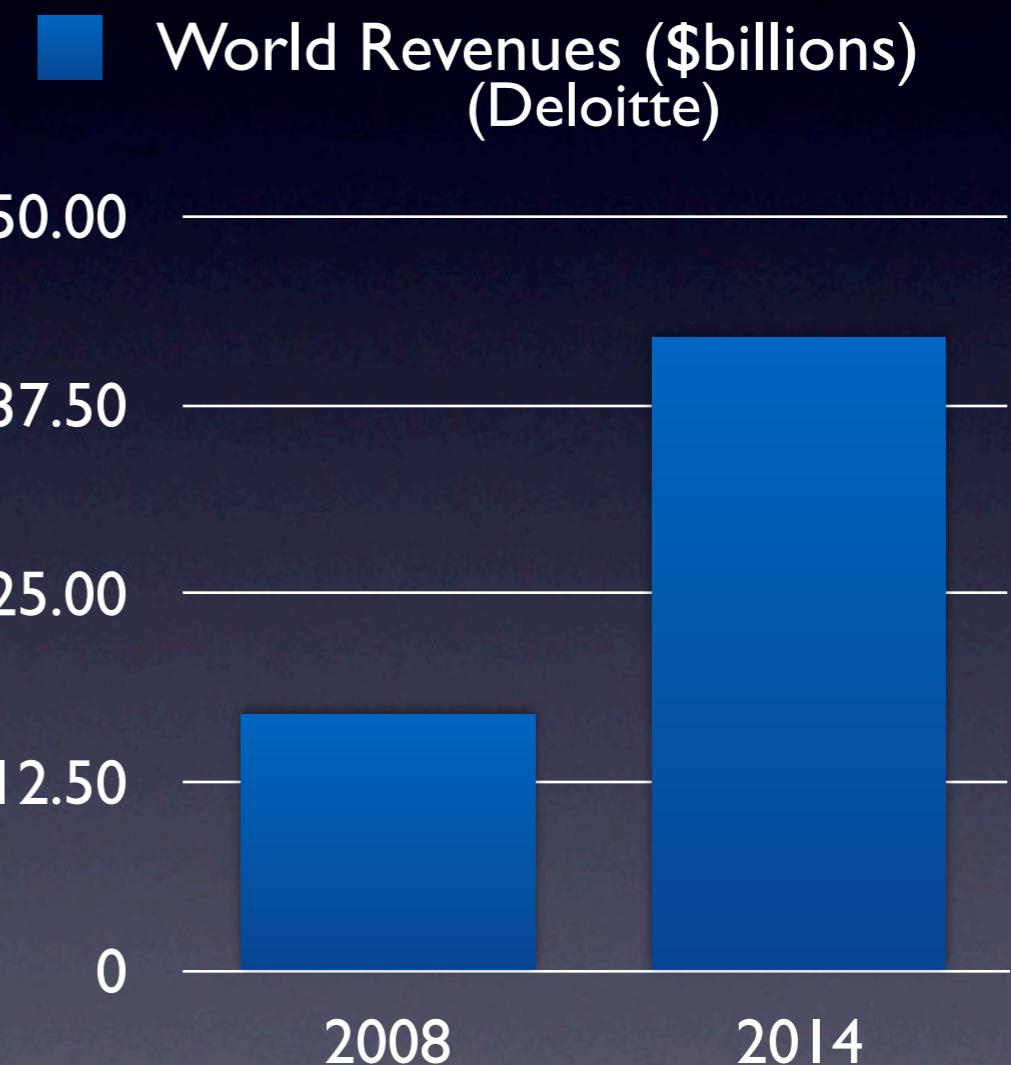
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- Forecast revenues of \$42 billion in 2014



market - DR



AMI



Electric Vehicle



Substation Automation



Demand Response



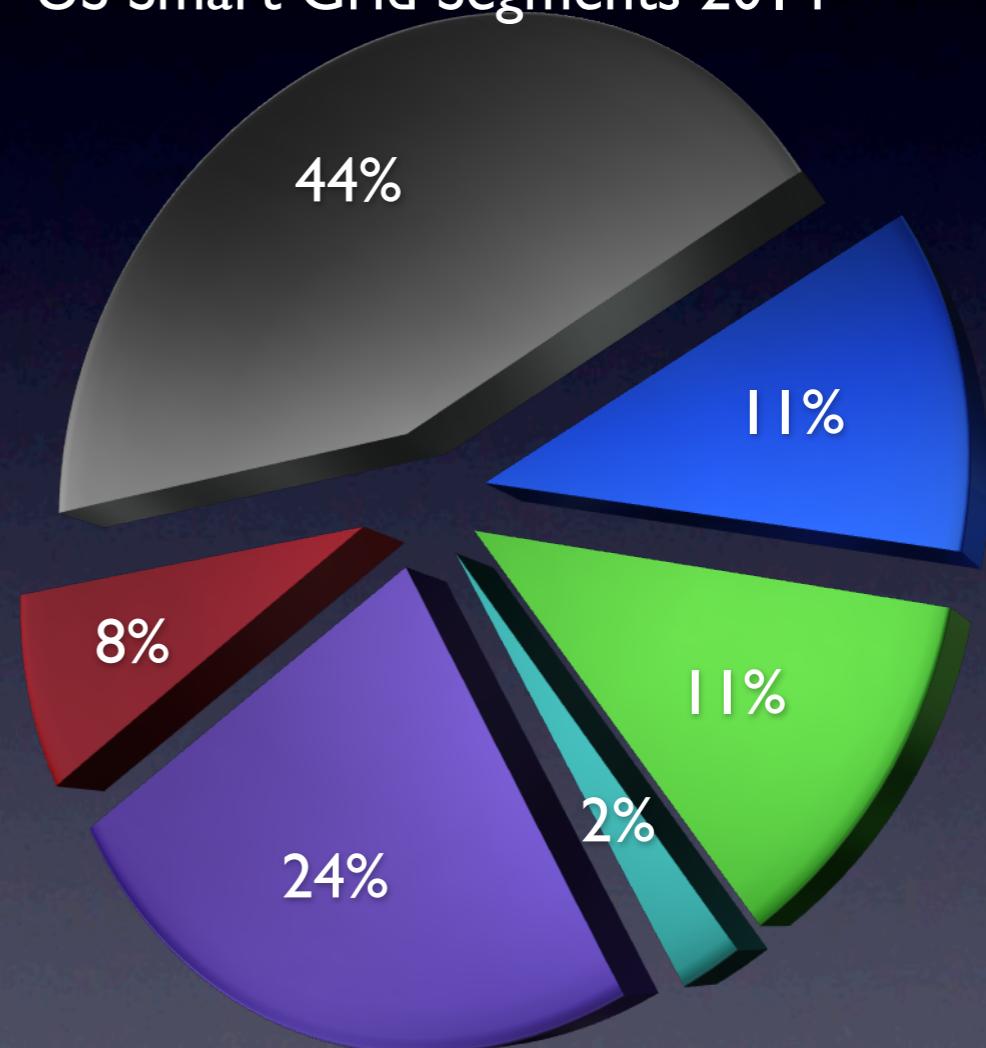
Distribution Automation



Transmission Upgrades

market - DR

US Smart Grid Segments 2014



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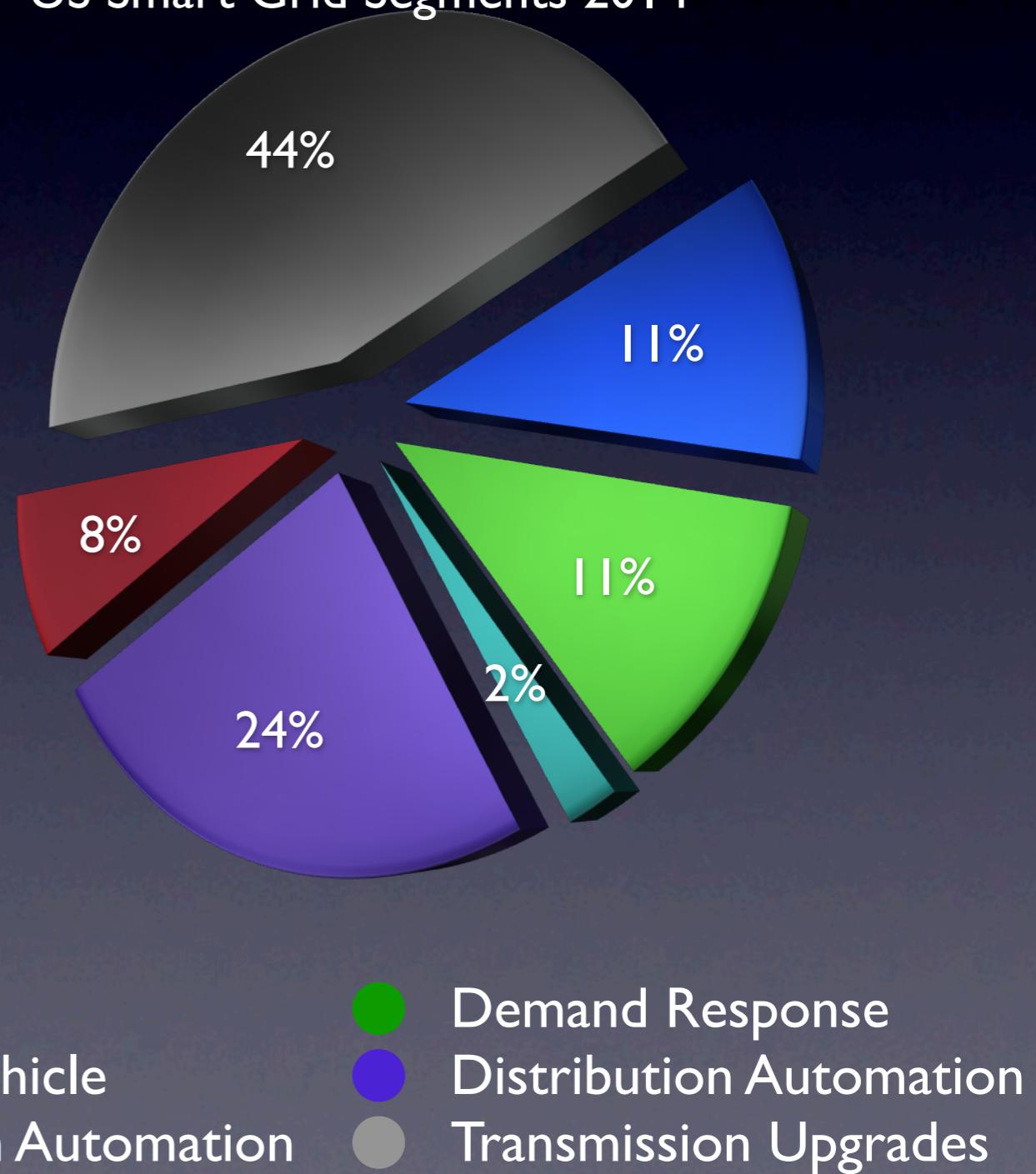


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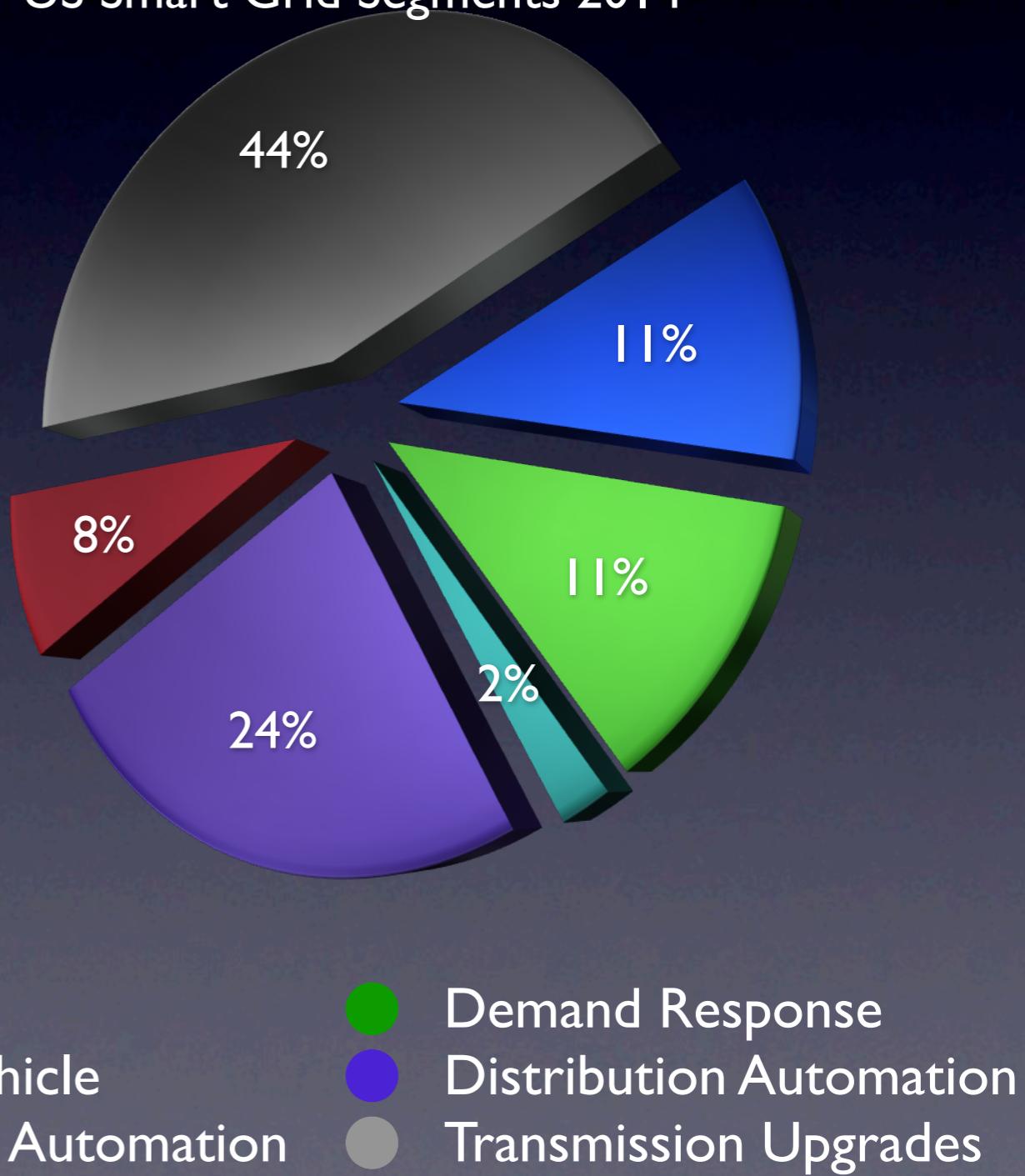
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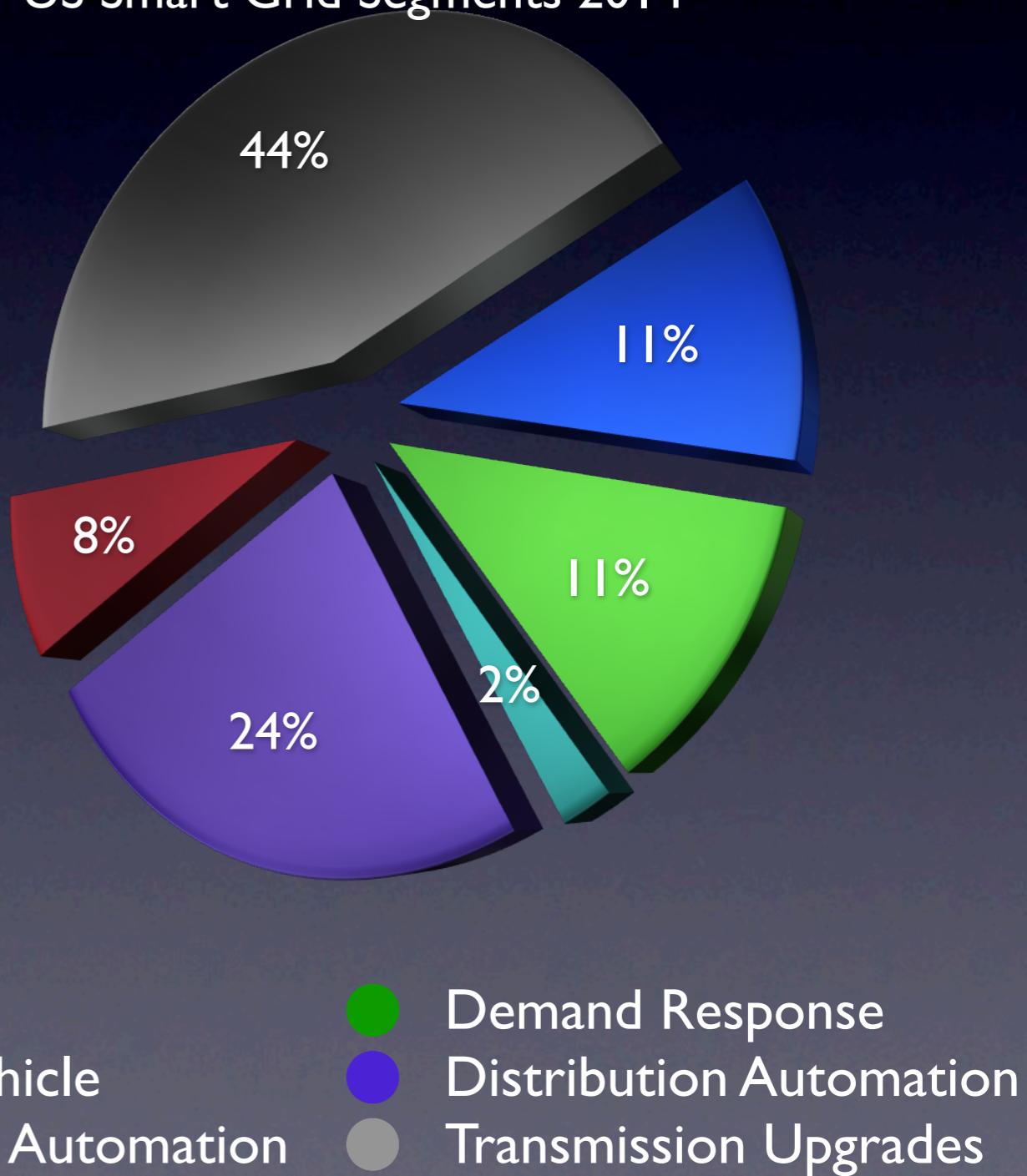
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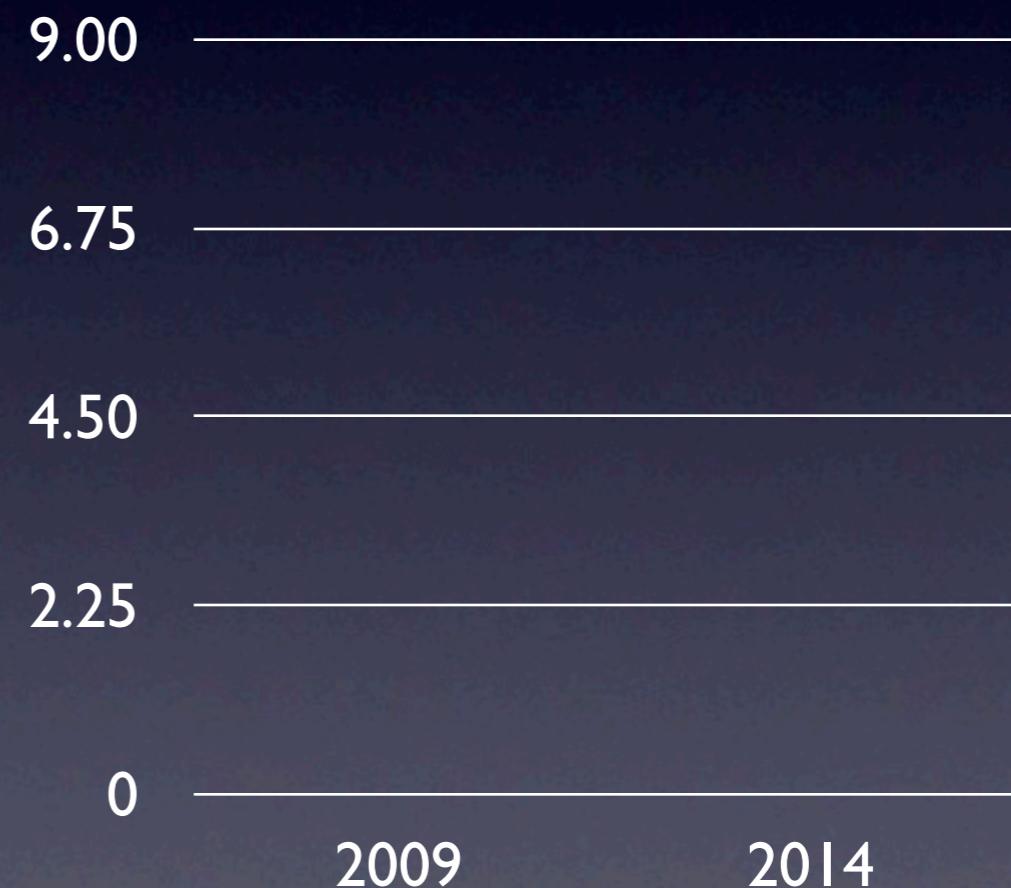
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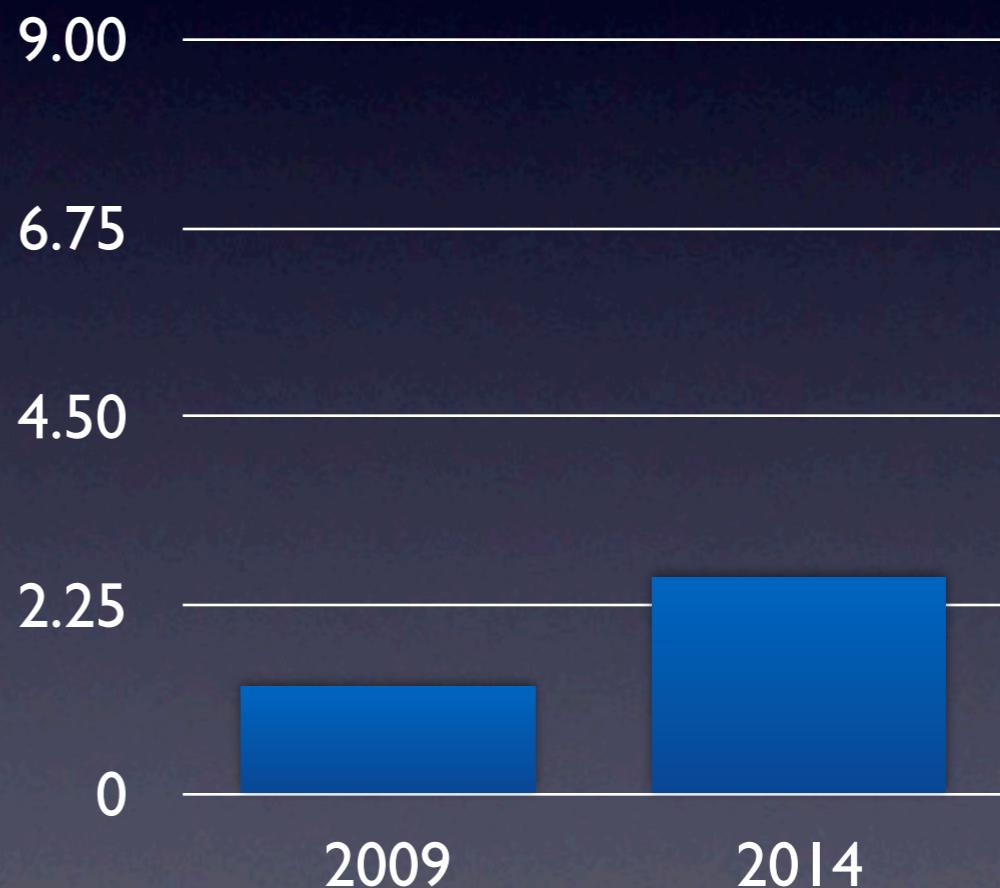


market - energy mgmt

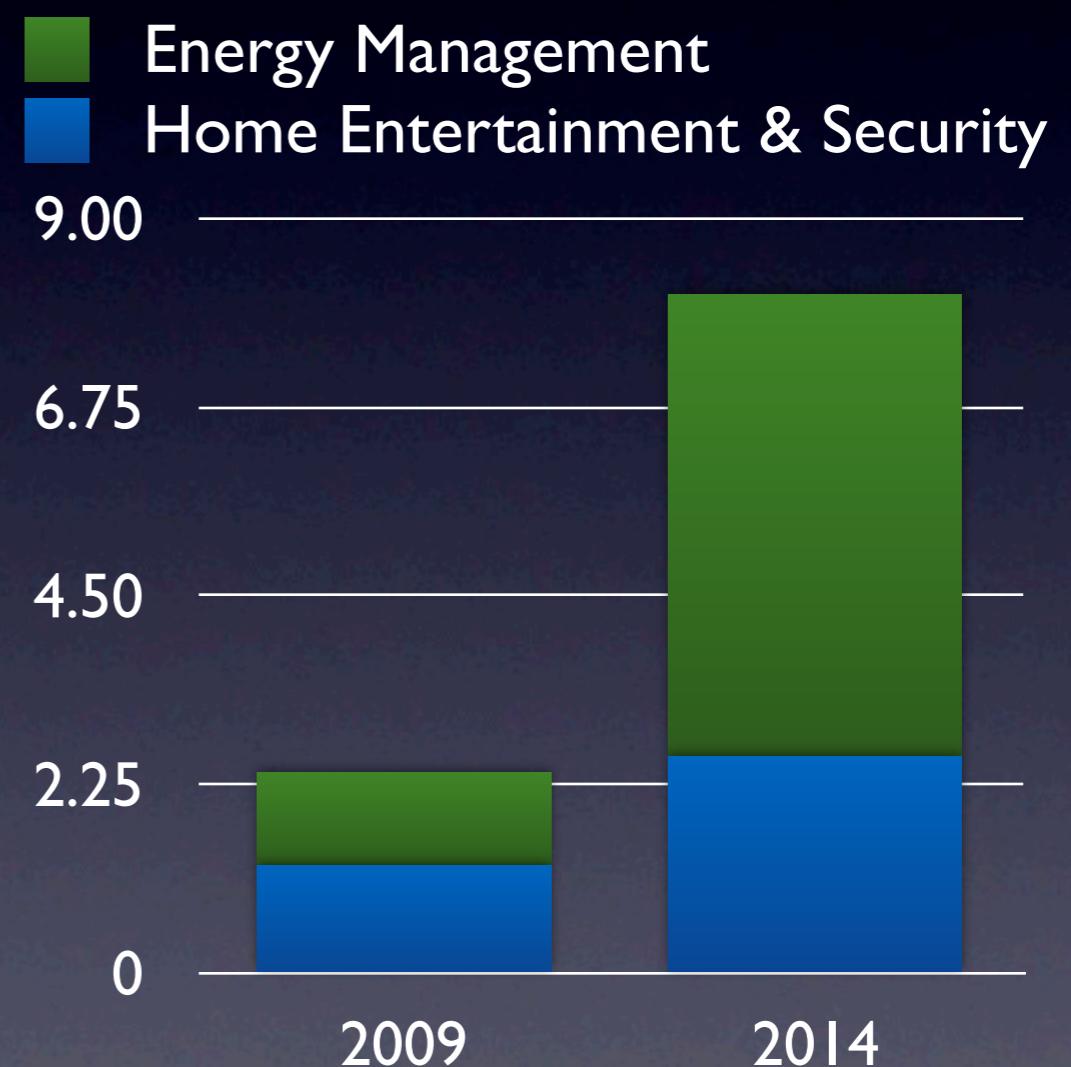
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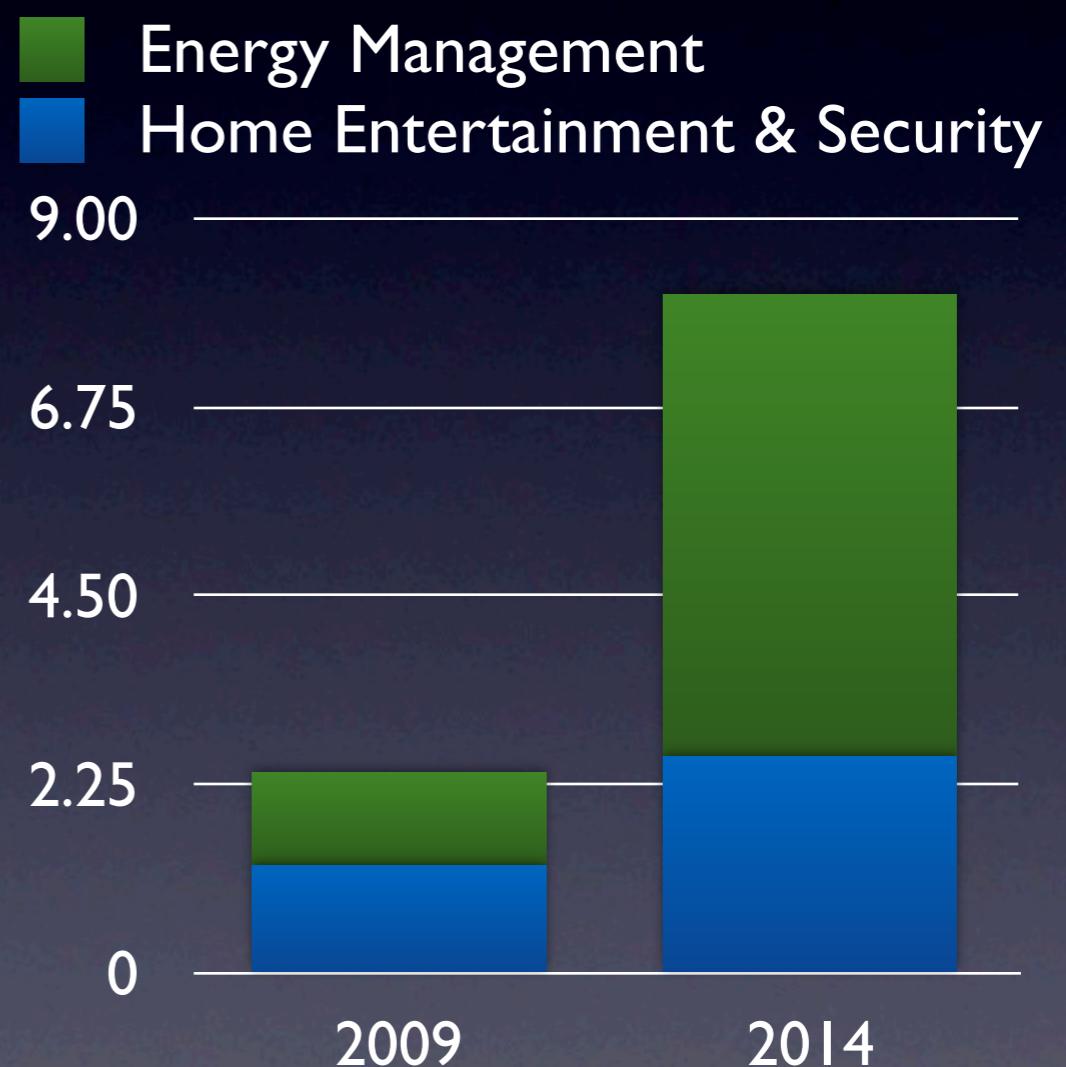


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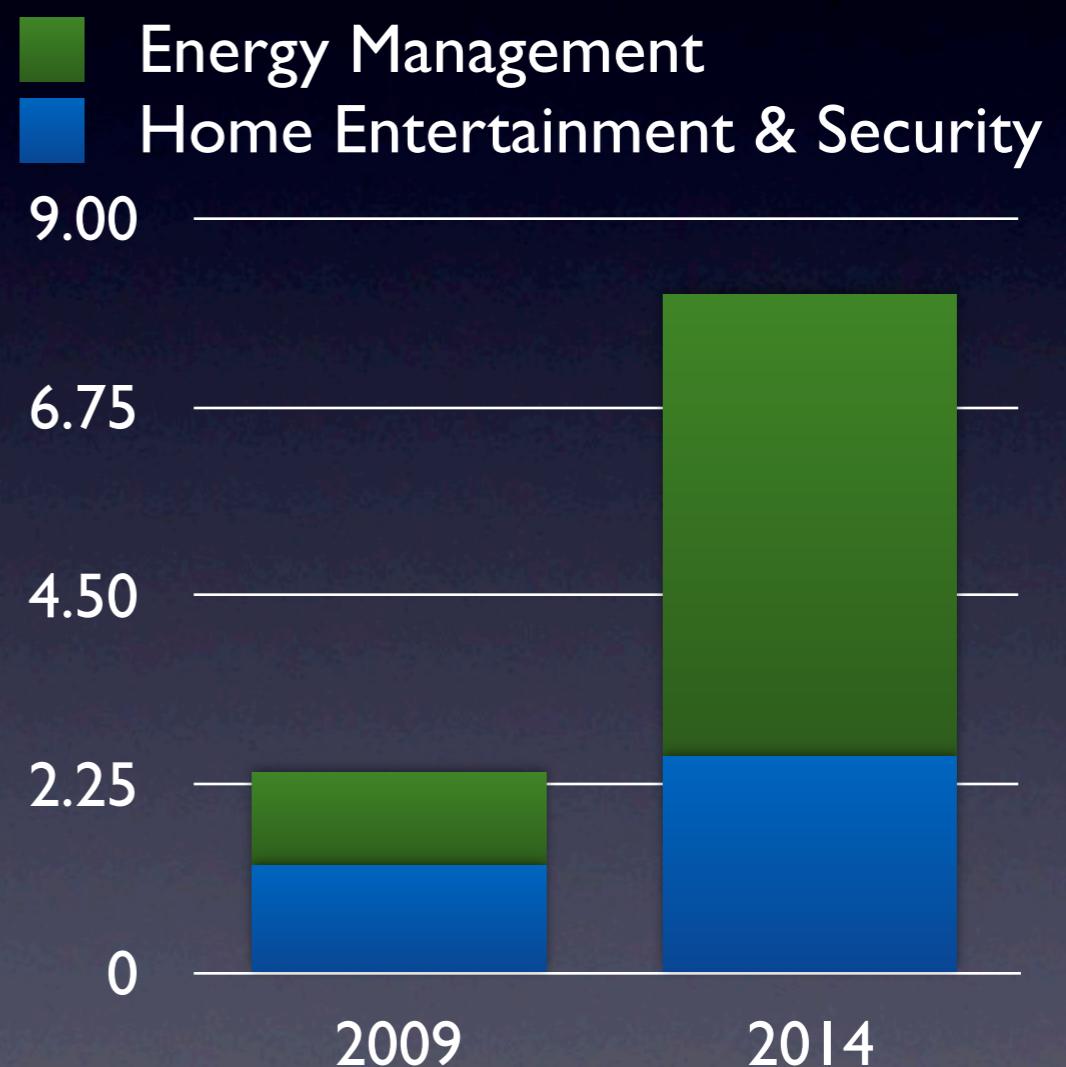
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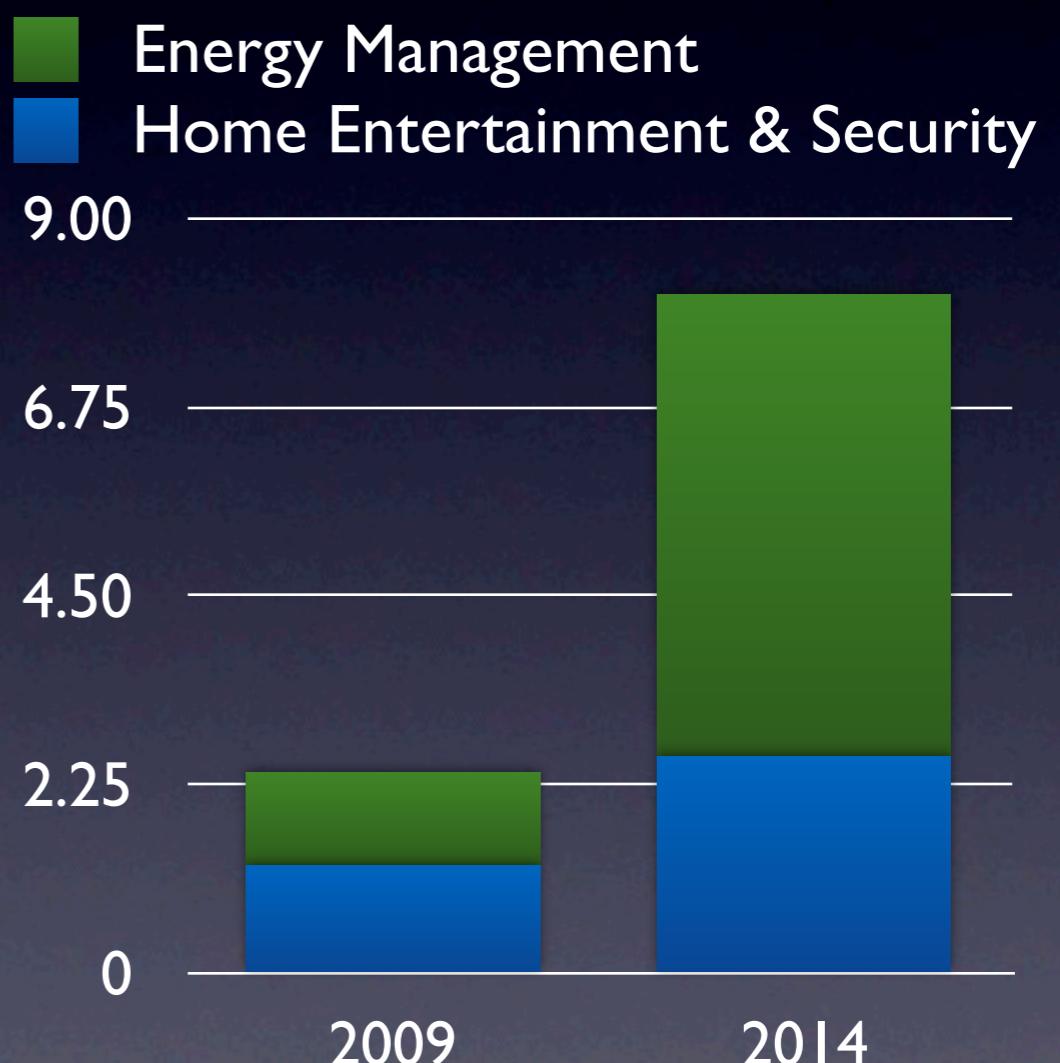
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- Energy Management will grow to a \$5.5 billion market in 2014 with a CAGR of 36.6%



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 - A utility solution for the customer end of the smart grid, inclusive of HAN and Customer Portal
 - An intelligent residential DR solution combining CSIRO's world leading smart agent demand response technology with the Portus Home Platform



solution - gateway



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solution - portal

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- View individual appliances

solution - portal



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- ALL view

solution - portal



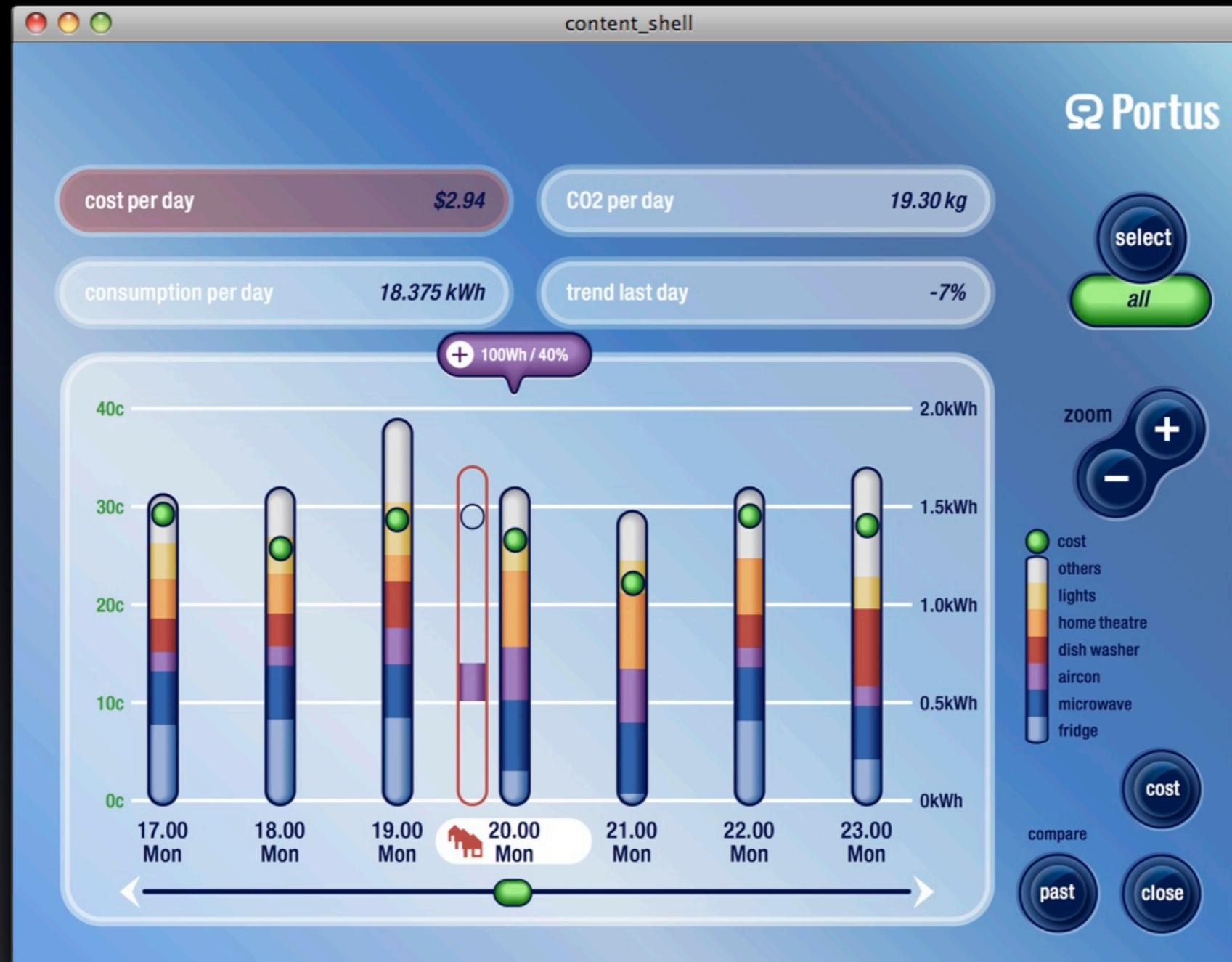
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 - Lack of targetability - sledgehammer approach

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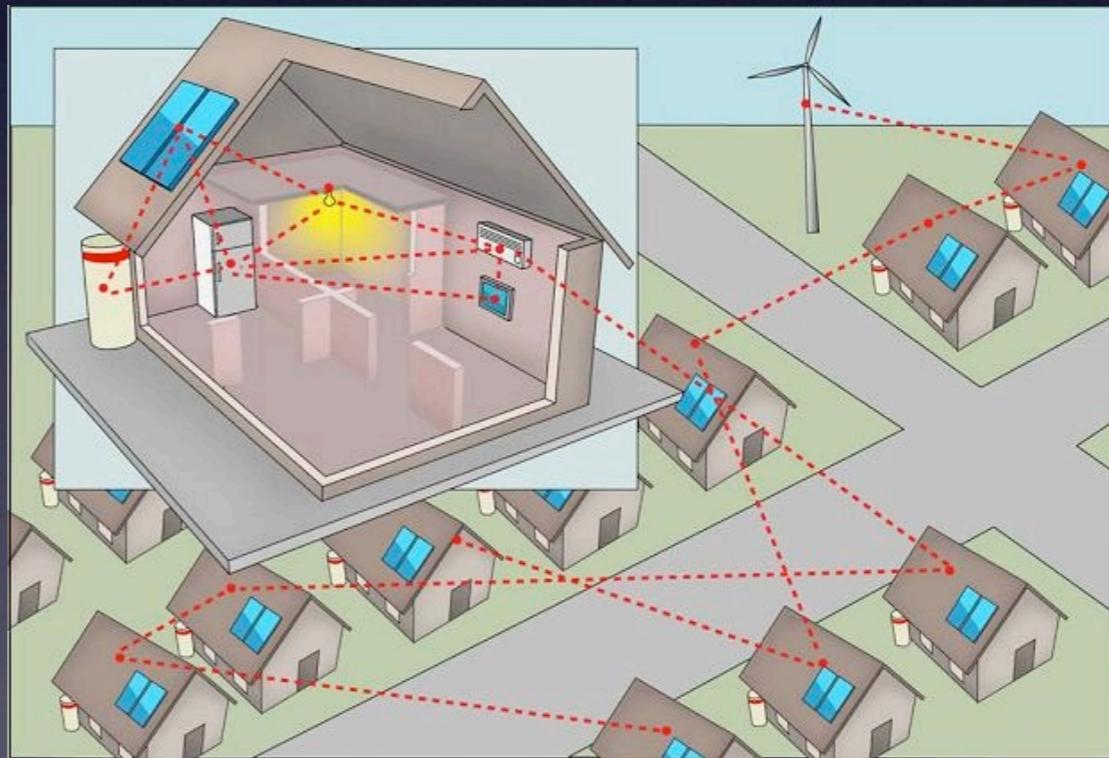
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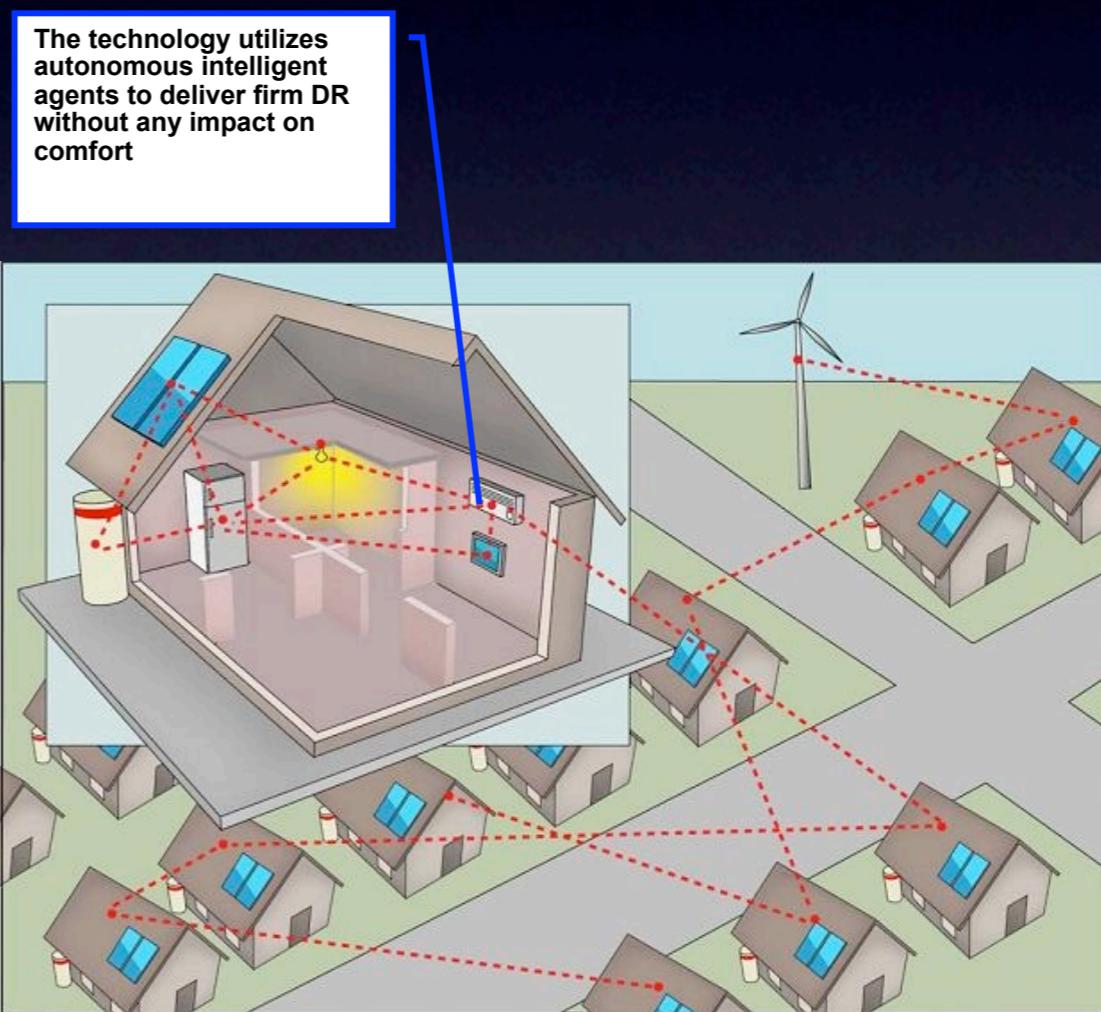
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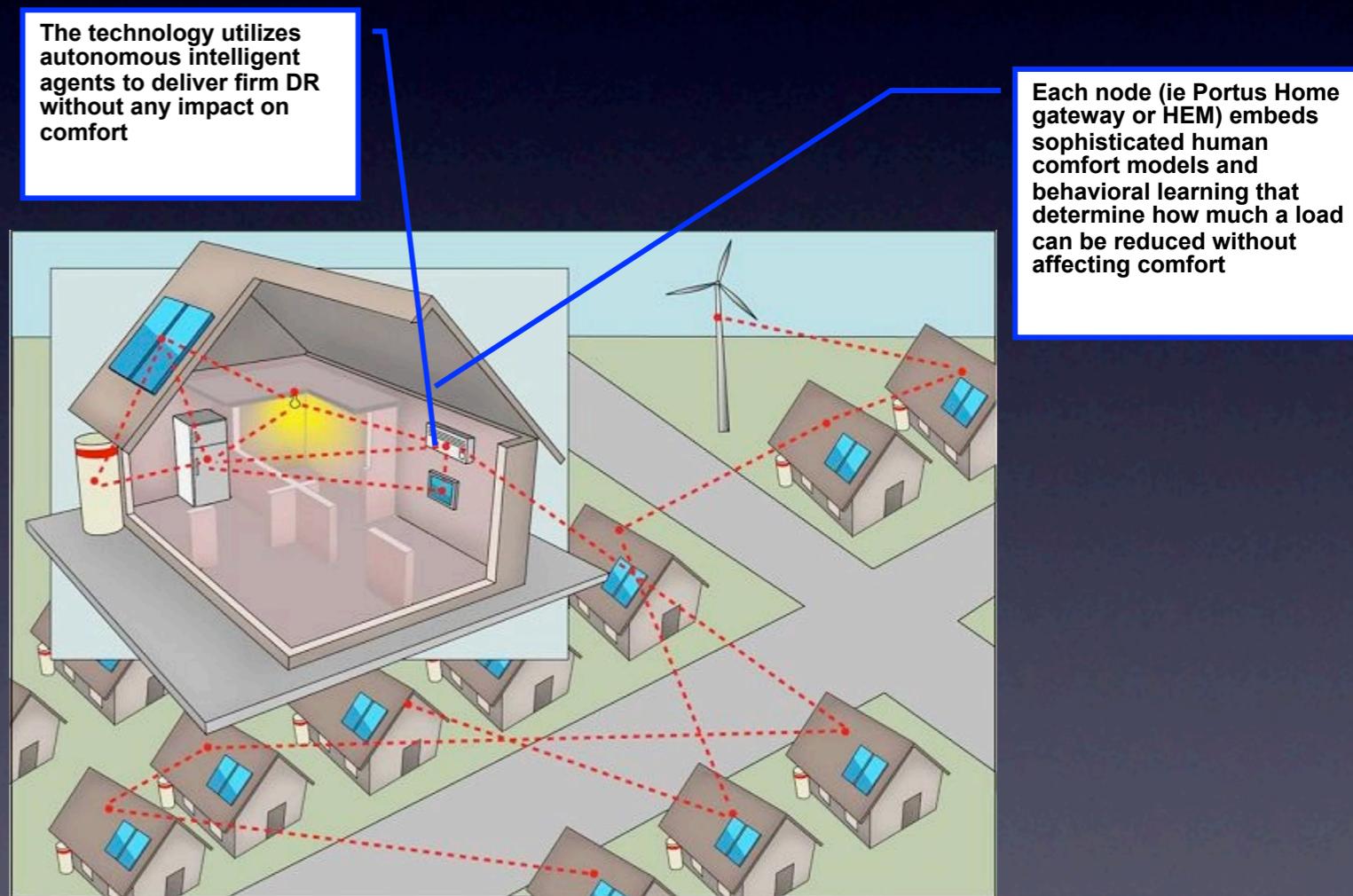
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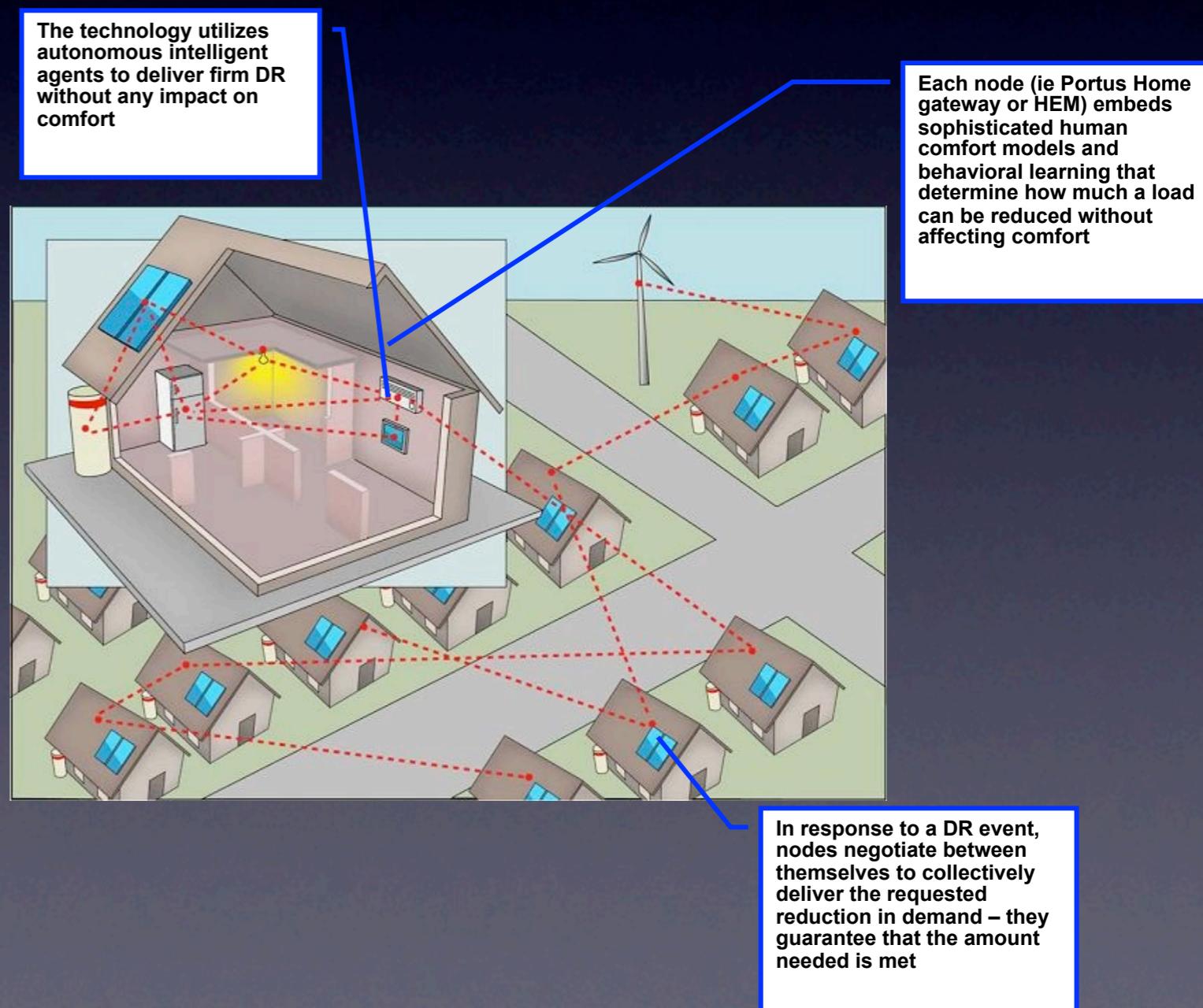
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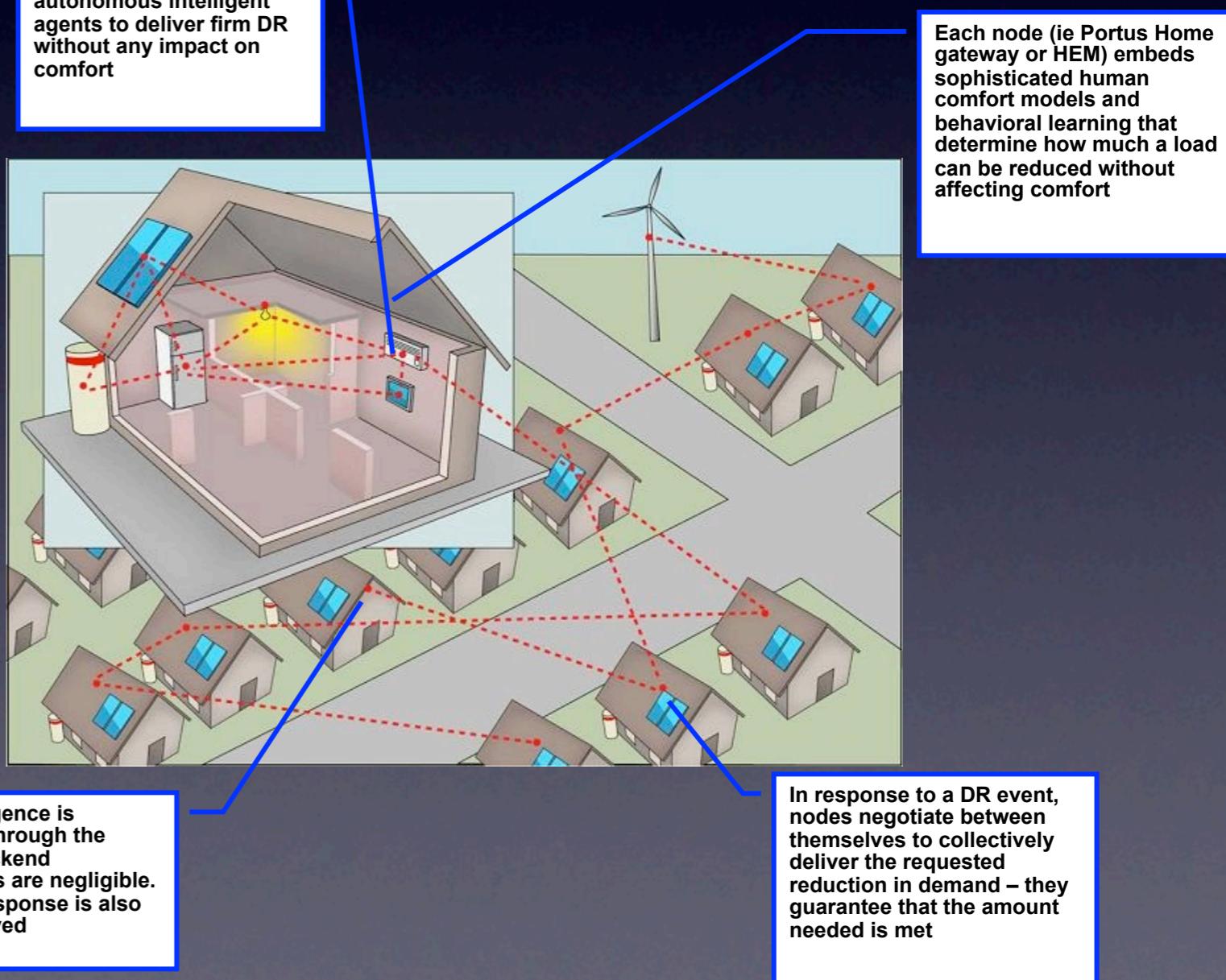
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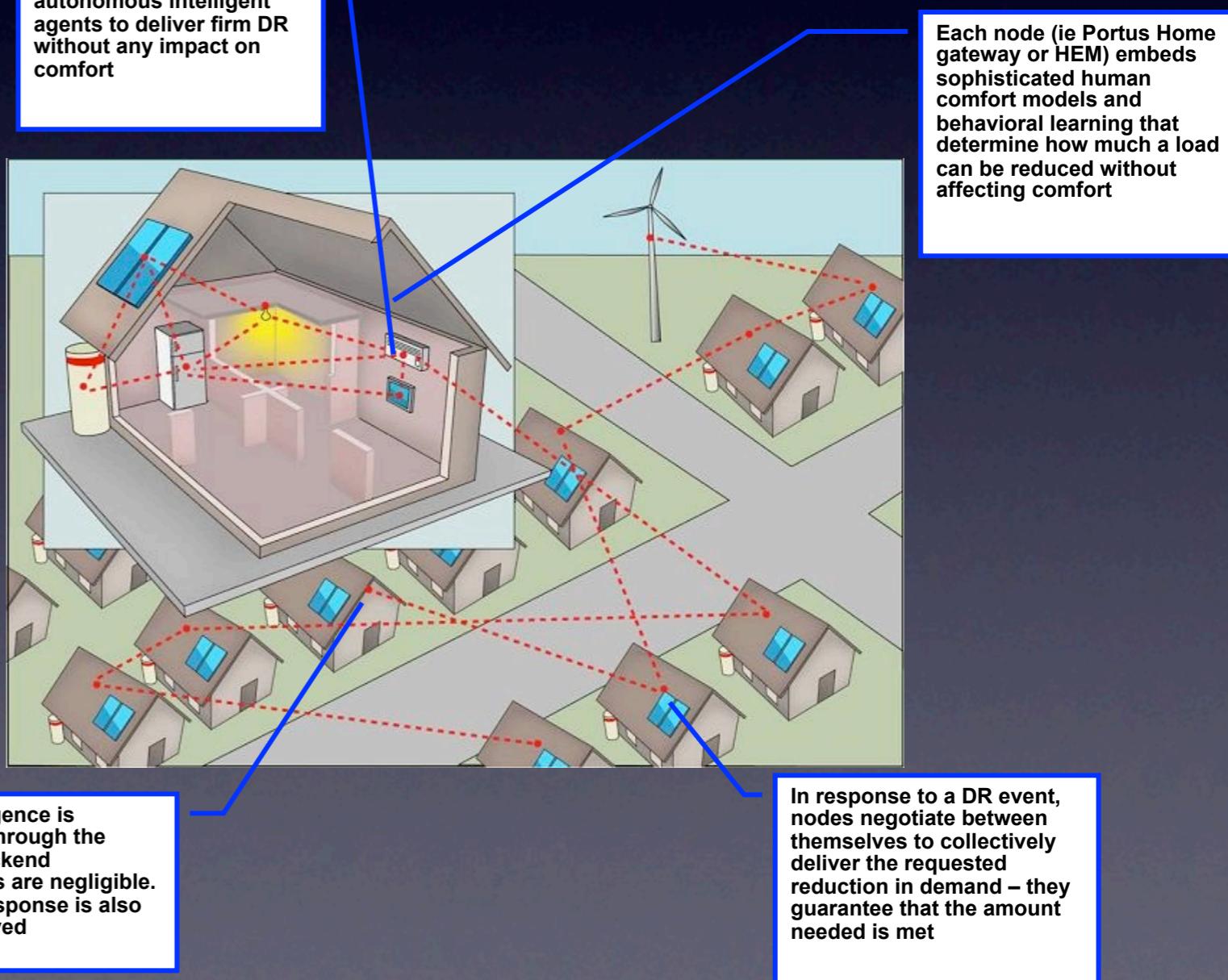
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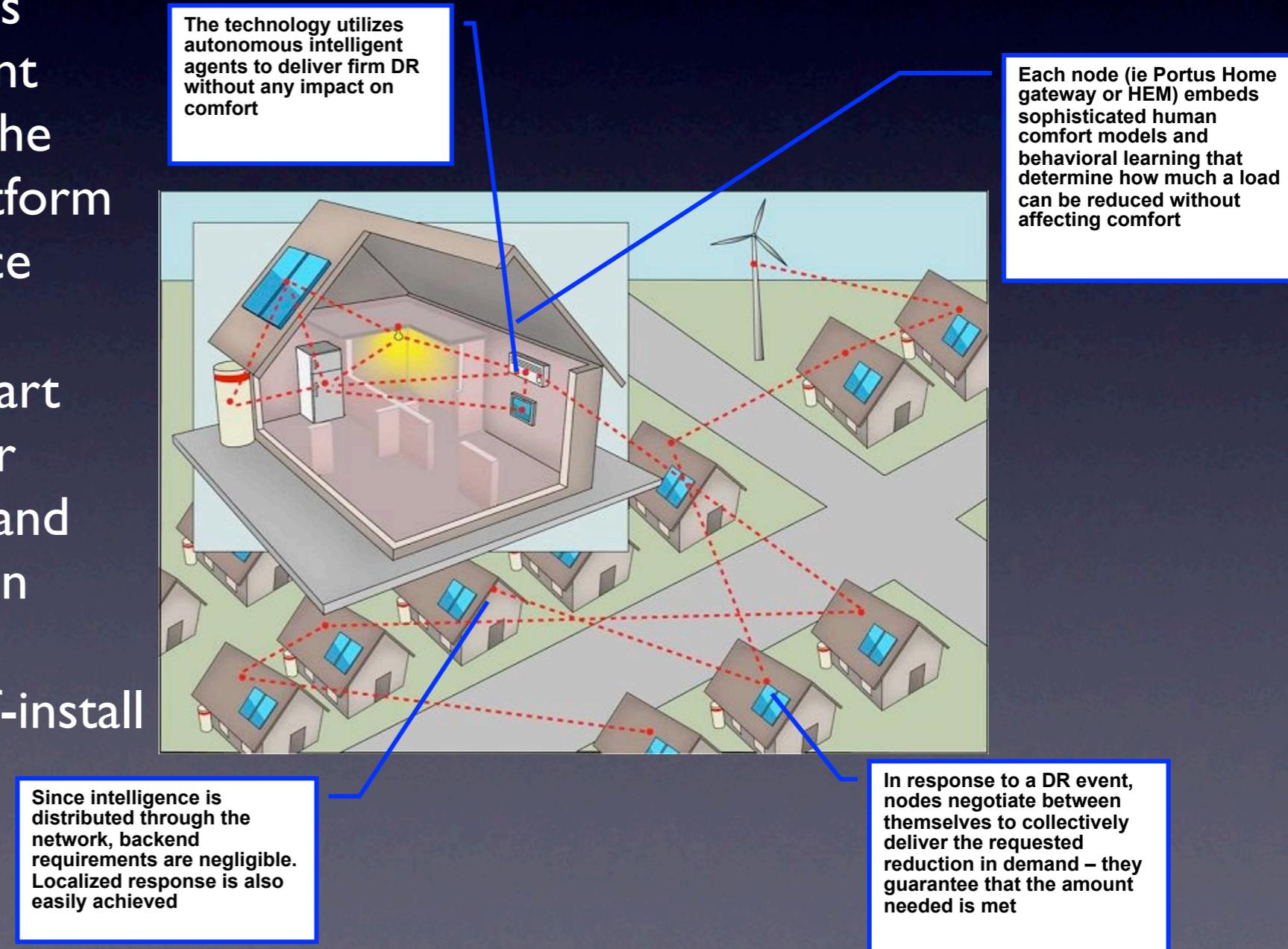
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- Designed as a self-install



model

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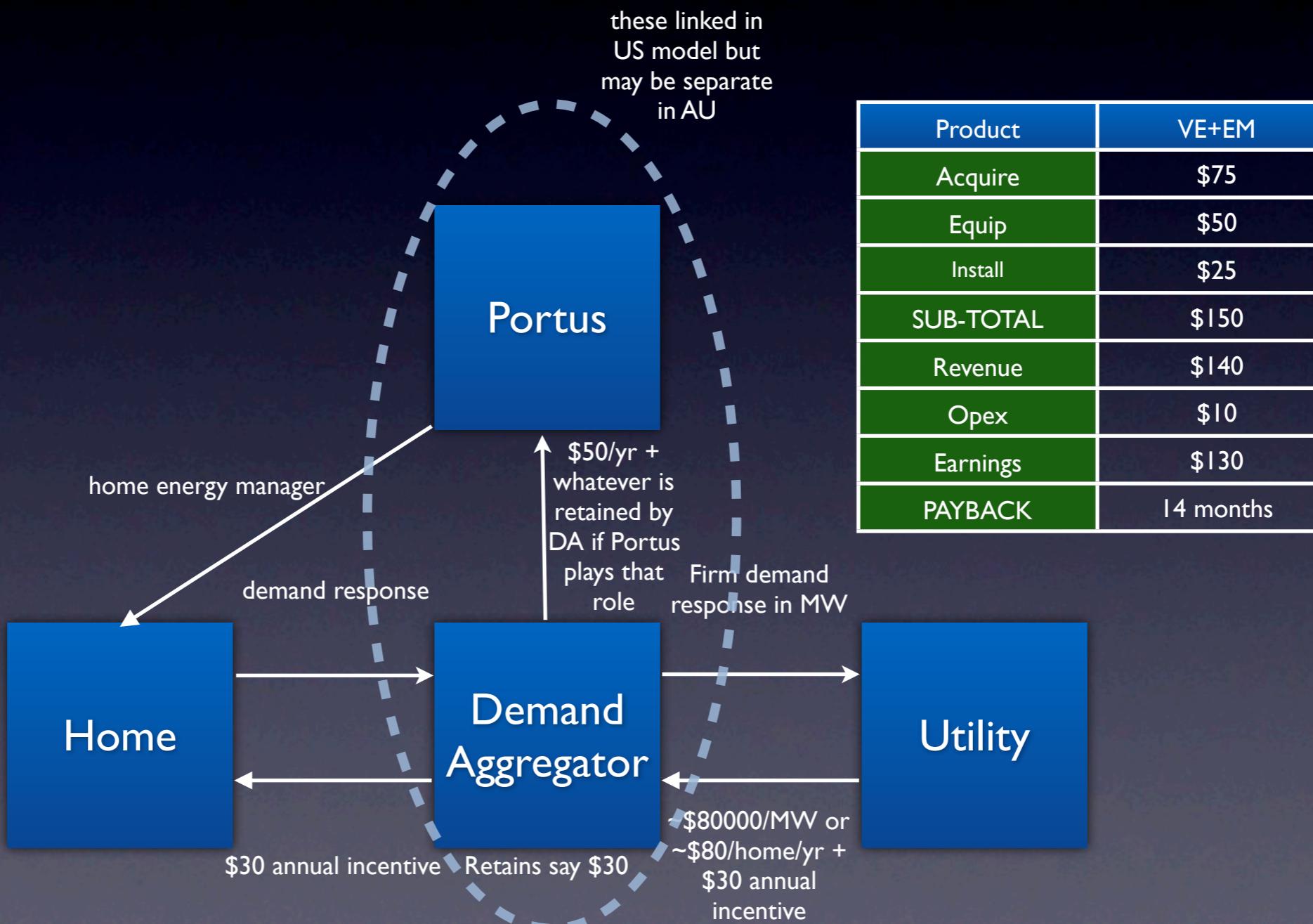
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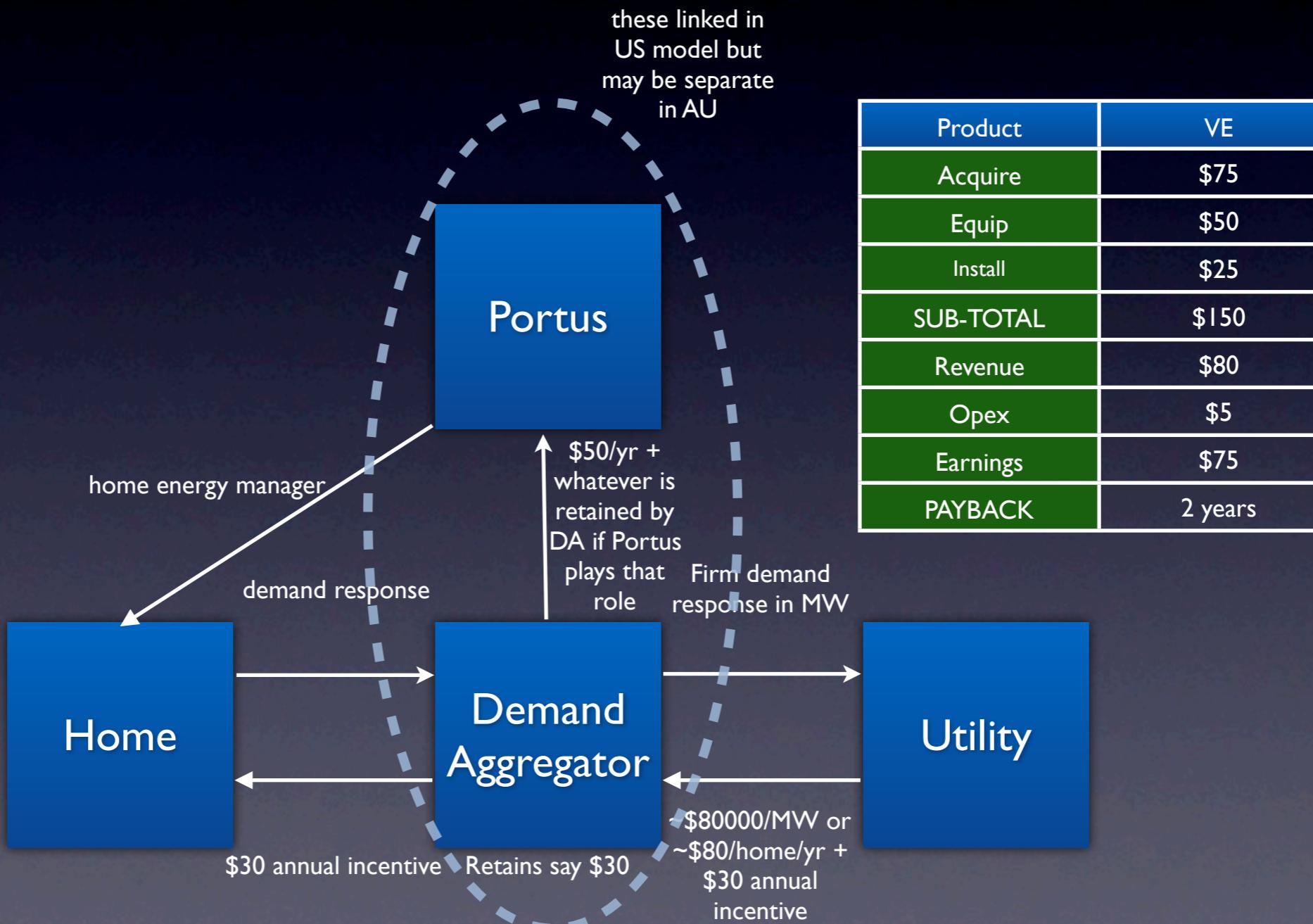
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- offer DR to utilities and energy markets:
 - outsourced DR program for utilities at \$80000/MW (~\$80 per home/yr)

revenue model-VE+EM



revenue model-VE only



Investment

When	Amount	Milestones
Start	\$1.0 m	Portus Home energy management solution launched, utility trials secured
6 mths	\$3.0 m*	Executive team recruited, utility trials converted, HEM ready for market
18 mths	\$9.0 m	Expansion into US

* AU Govt Term Sheet for AUD 1.0 m - US Investor needed

