

# LAVA BOARD: SUSTAINABILITY

# BRINGING NUMBERS TO LIFE L9.3

View this pdf page-by-page with your "left" and "right" arrow keys versus with your "up" and "down" arrow keys.

This best simulates the scenario sequences and animated transitions.

# Sn@p: LAVA on the IPad

LAVA, for Lightweight Applied Visual Analytics, is a comprehensive, general-purpose method for presenting and consuming visual analytics.

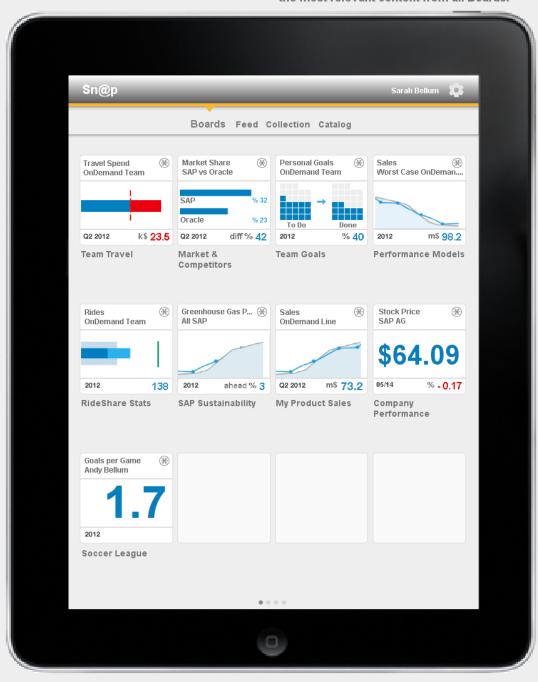
Sn@p is the IPad version of LAVA. This document walks through the major features of Sn@p.



## Sn@p Homepage: Boards

The Sn@p Homepage shows the worker's collection of Boards. Boards, derived from "dashboard", are LAVA's primary viewing unit, serving as the comprehensive viewing vehicle of an individual or aggregated Data Set.

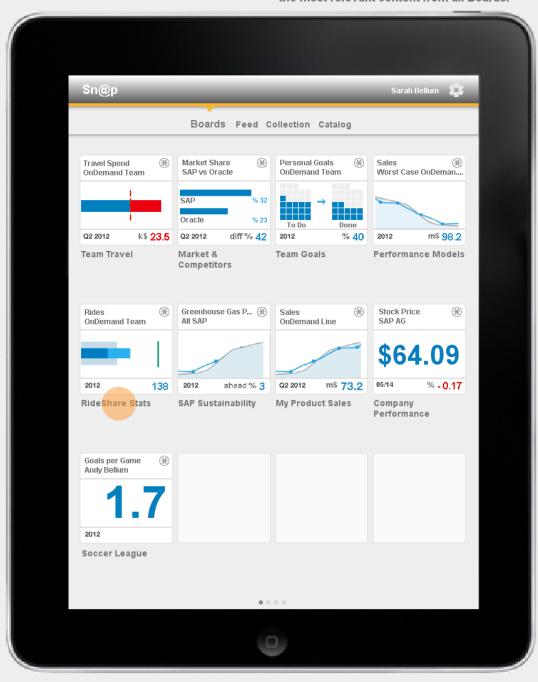
The Home Panel provides access to the Boards through Main Points. Each Board in Sn@p has one designated Main Point, rendered in the LAVA Point format showing title, microchart, and time & numerical values. Main Points show live data, making the Home Panel into a meta-dashboard of the most relevant content from all Boards.



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#### The Board

Boards have a standard layout intended to be practical for viewing any multi-dimensional data set. LAVA prescribes three container types for content, called Channels: The Digest contains Points, the Gallery contains Posters, and the Well contains Lattices, ordered top to bottom below.

Board Filters are at top, and are limited to three total for simplicity. Time and Location are typical options as shown here, their goal being to quckly narrow the data volume.



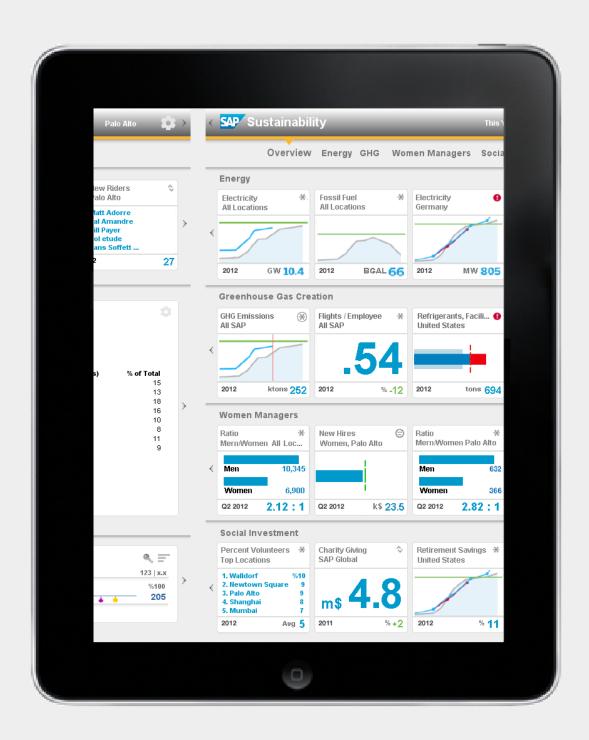














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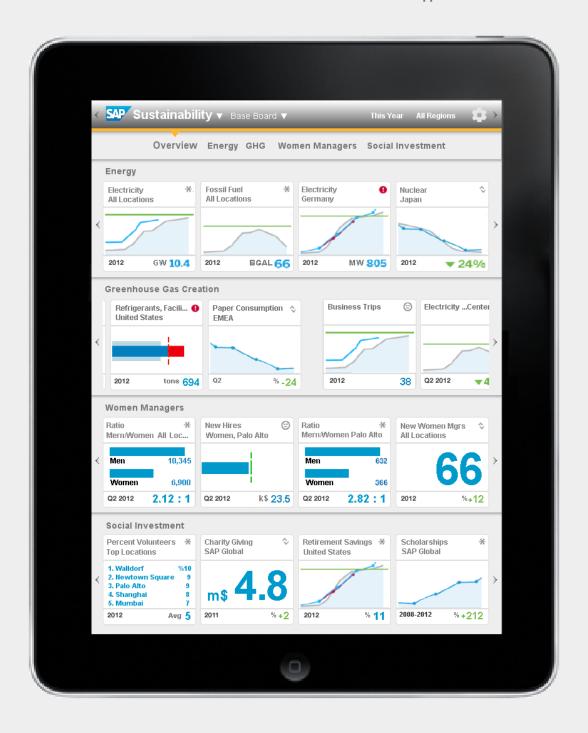
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# **Category Pages**

Board designers can use Category Panels to subdivide data set content into meaningful categories. Category Panels default to the basic LAVA Content Channels (Digest, Gallery, Well).

In this example, the SAP Sustainability data falls into four categories. Greehnouse Gas emissions is selected.



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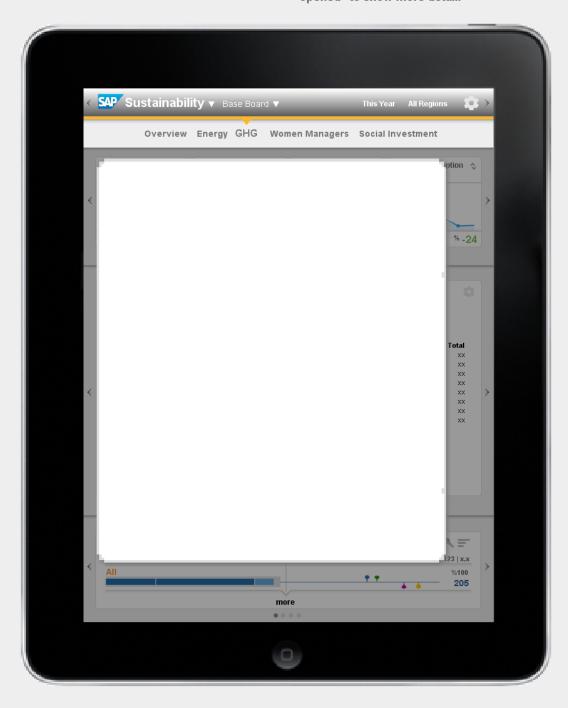


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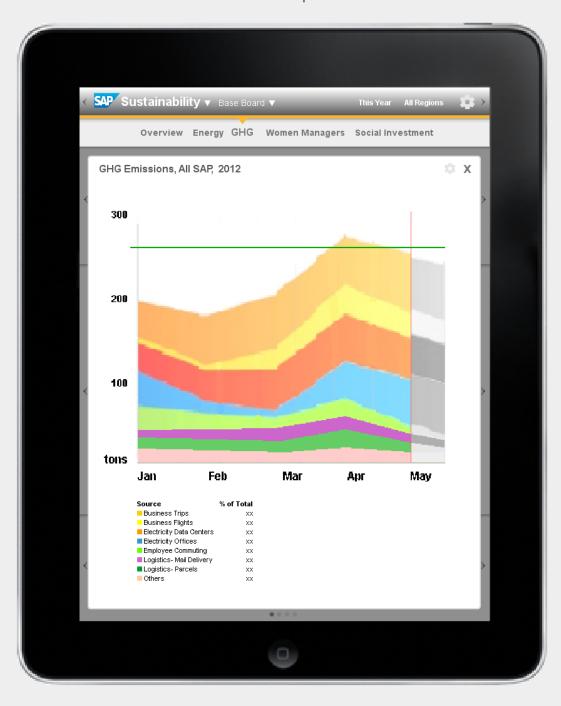
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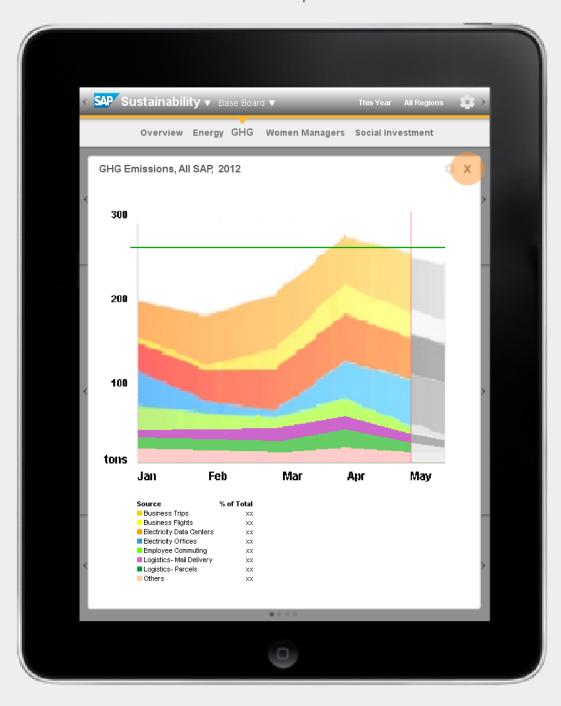
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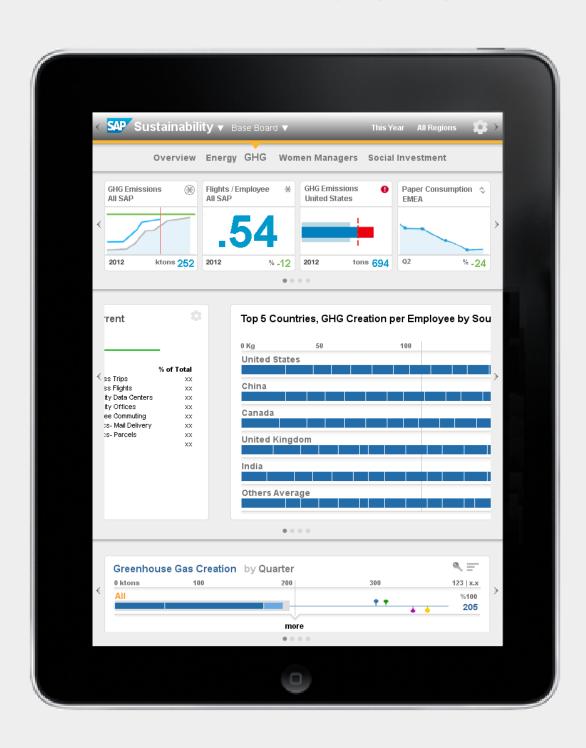
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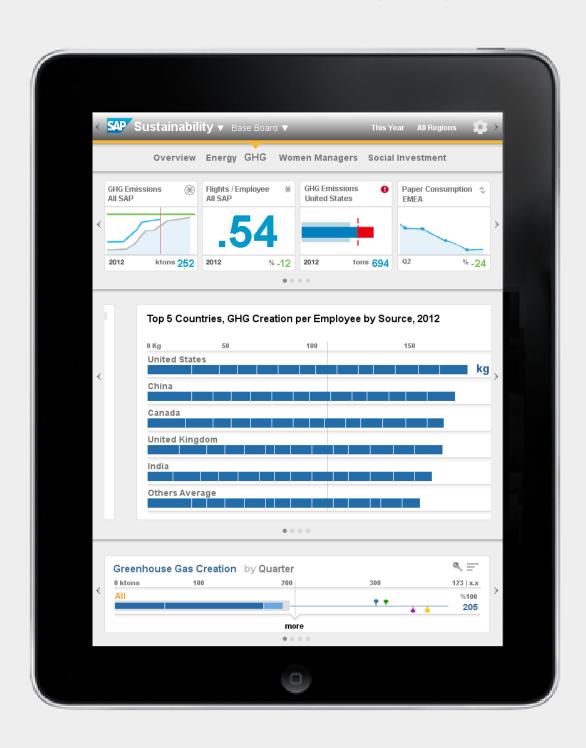
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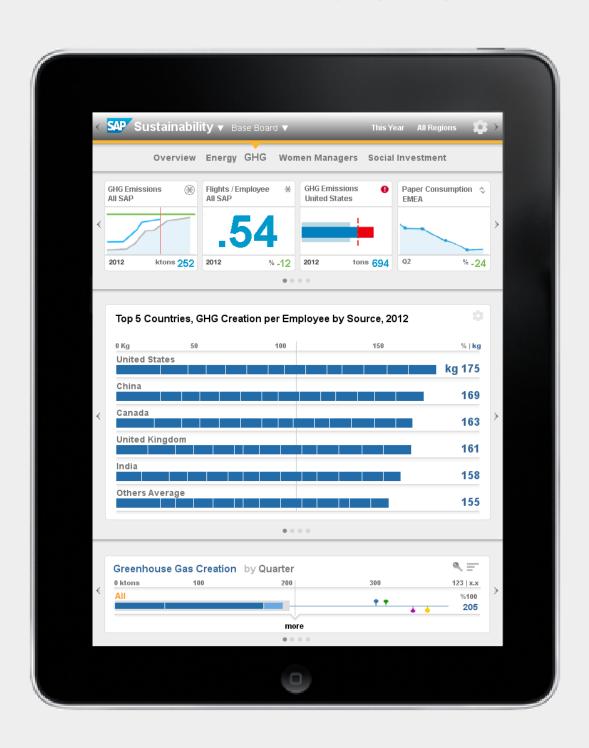
The Gallery behaves as the Digest does, with horizontal tap or swipe navigation among 1-to-many Posters.



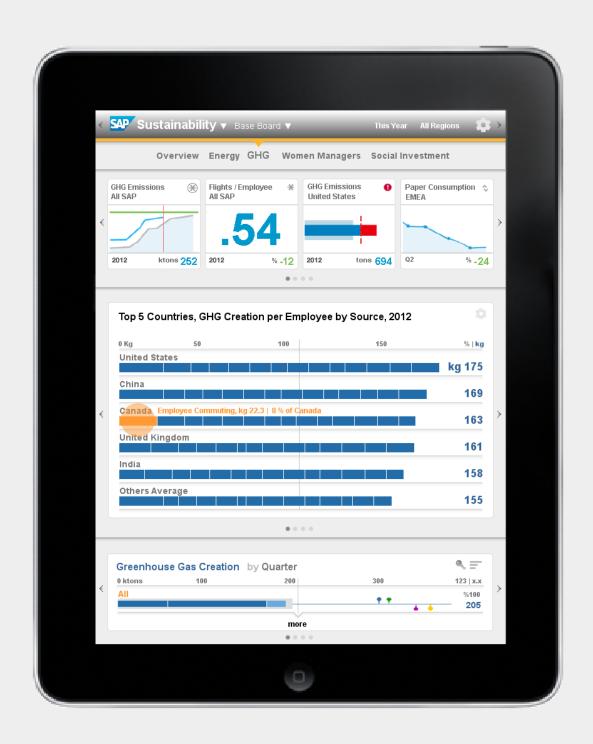
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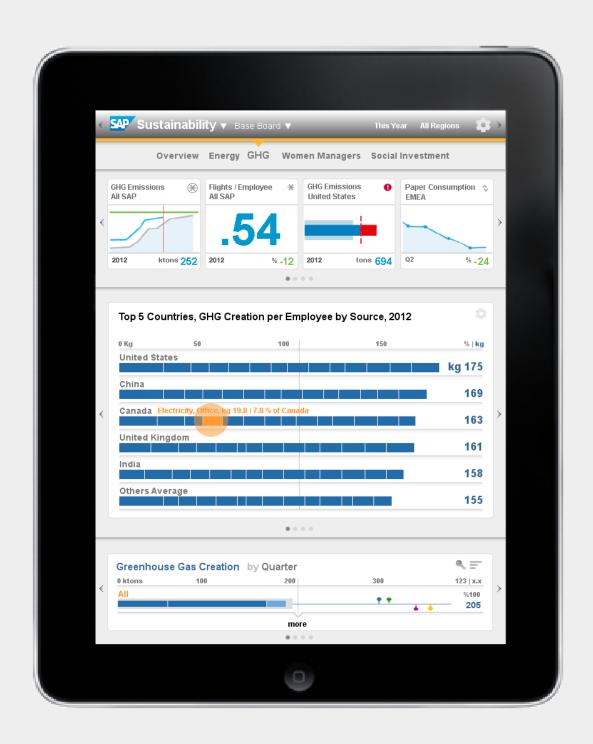
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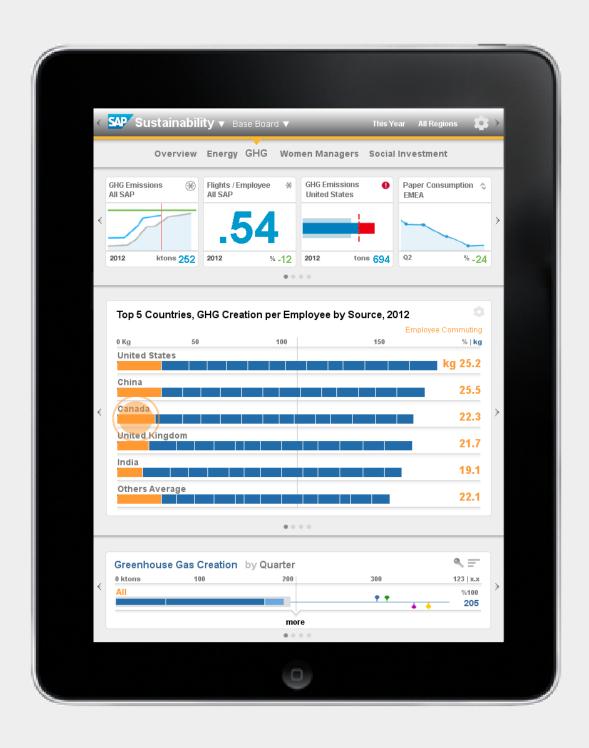


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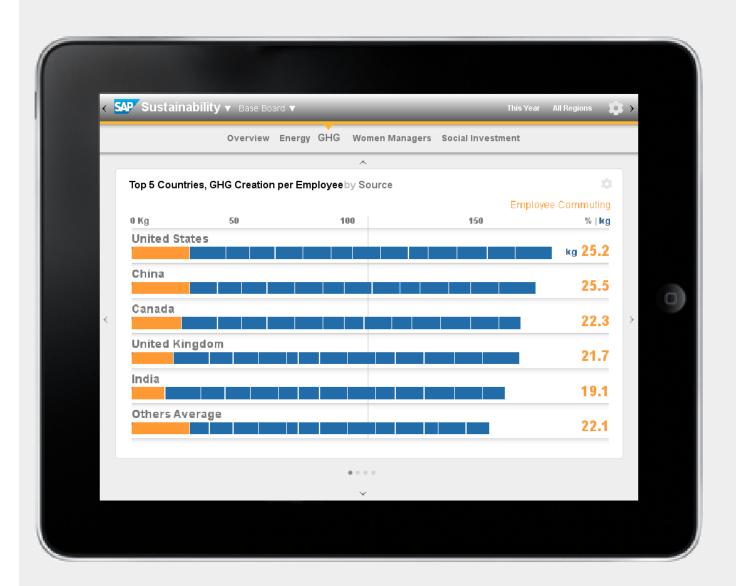
## Strip Slice Selection & Sorting

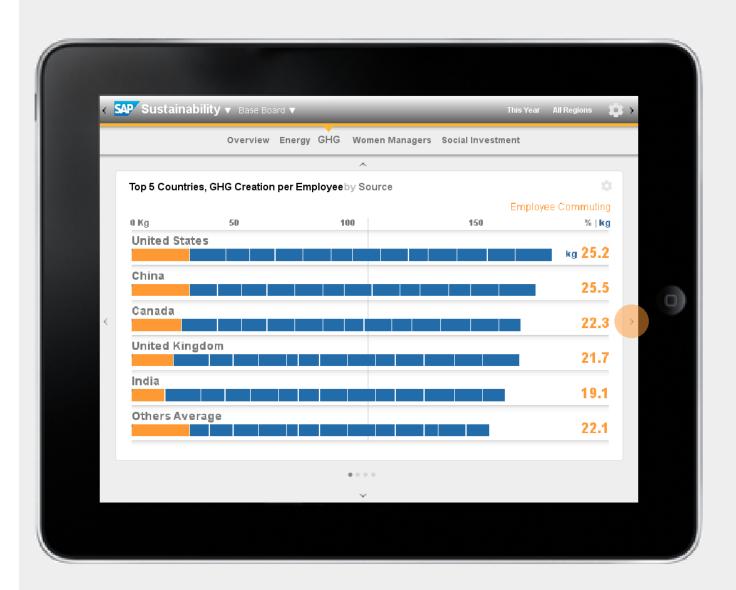
This Poster uses the Lattice horizontal bar chart. Posters can be interactive, in this case the Slices of the blue Strip can be selected and sorted by hold-tapping. Matching values in other Strips then align left for easy comparison. Measure values for the selected values replace the aggregate values in the Number Column.

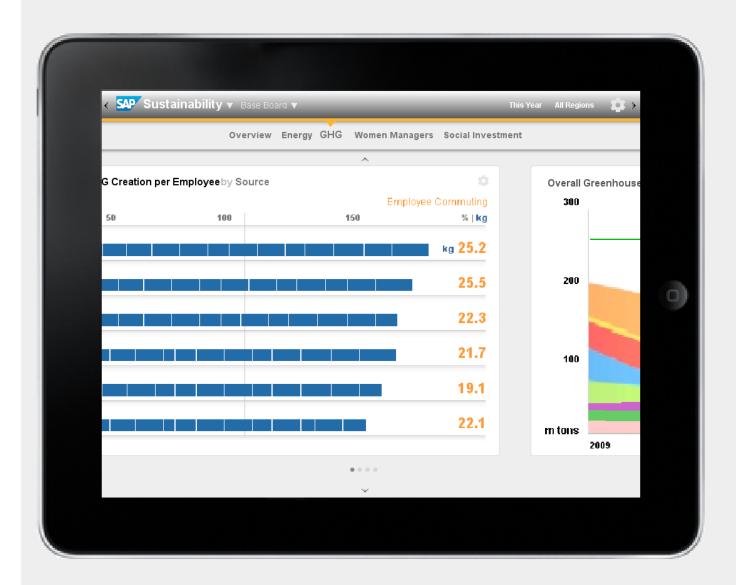




Moving the IPad to landscape view changes the Sn@p navigation model to favor large-format views of the Board's Posters and Lattices, and the Thick Channel view of the Digest.











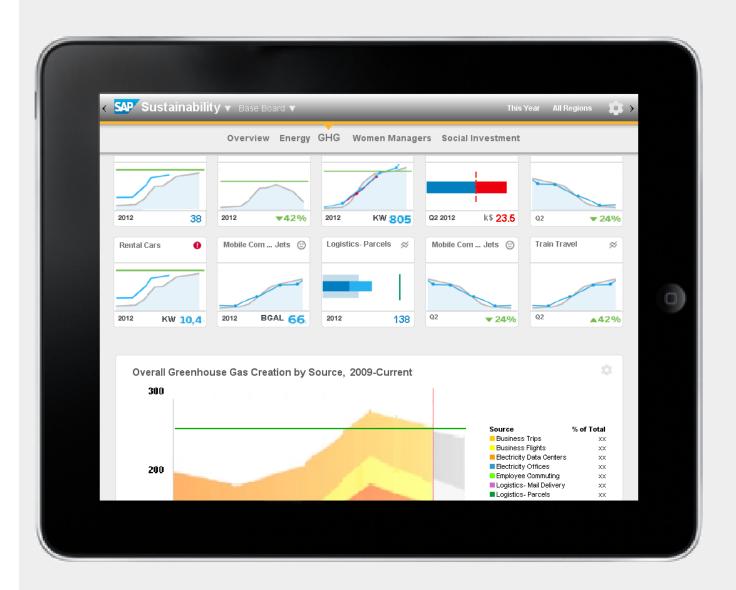






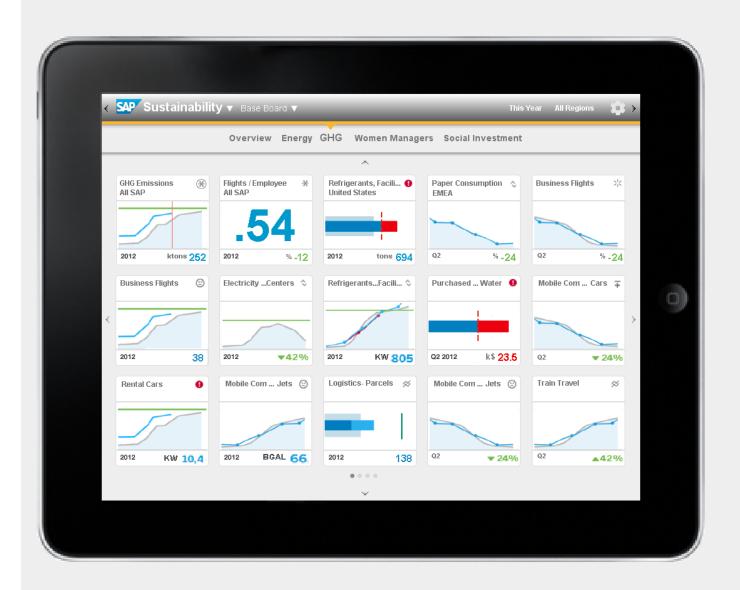








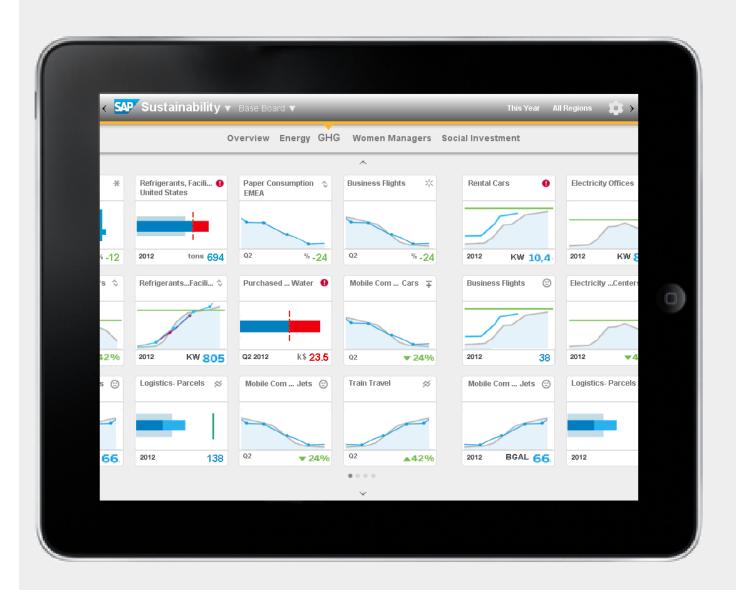


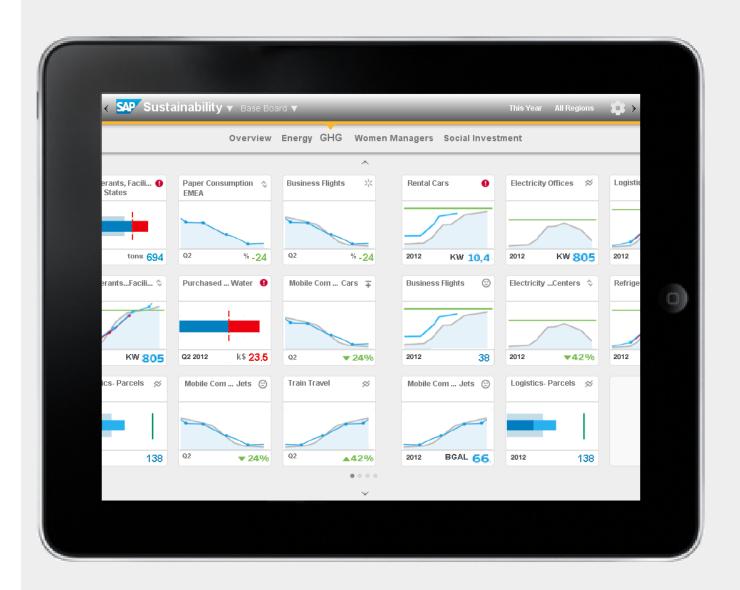




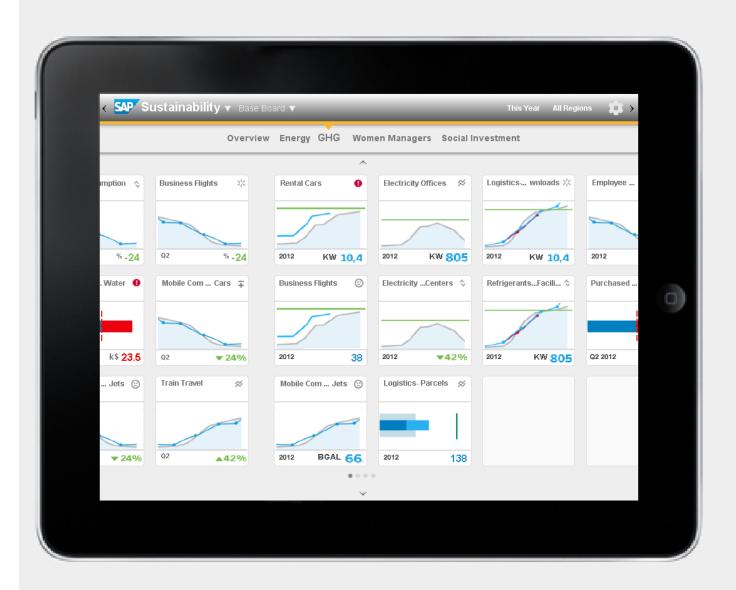




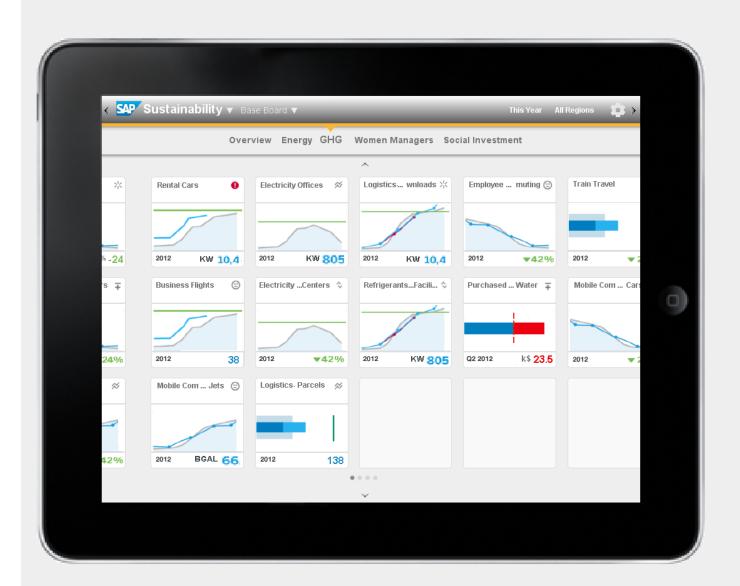


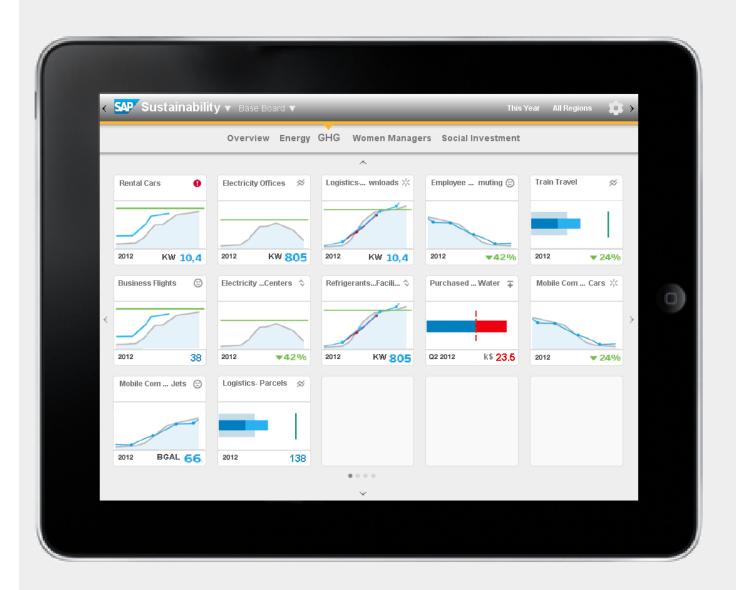








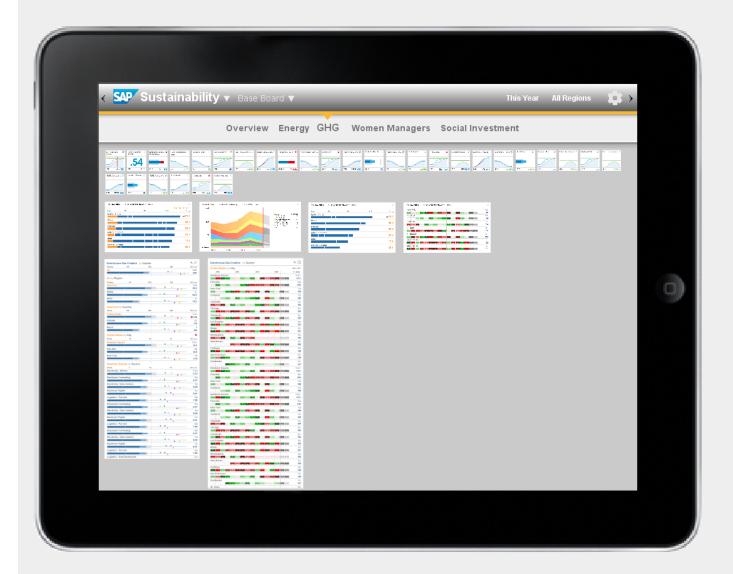




# Flyover Mode

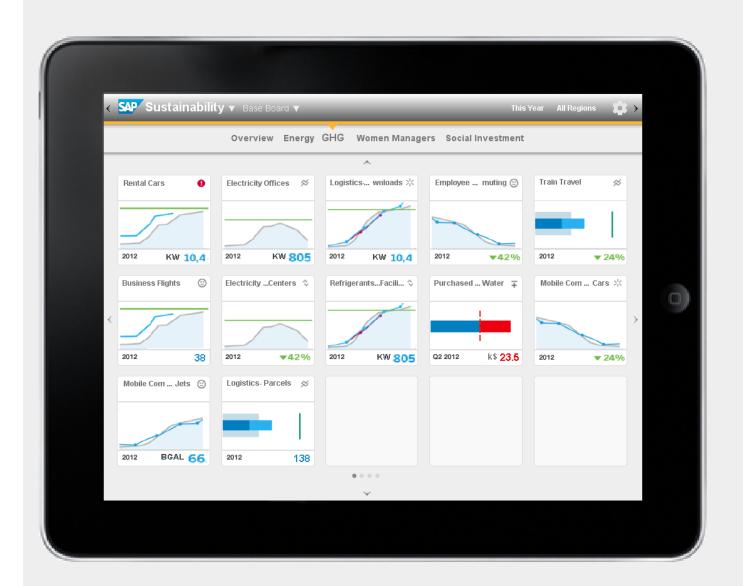


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### Drilling into the Well: The Lattice

The Lattice is where all data in the Board's Data Set is viewable. It is a proprietary visualization component to enable casual users to make sense of large multidimensional data sets.

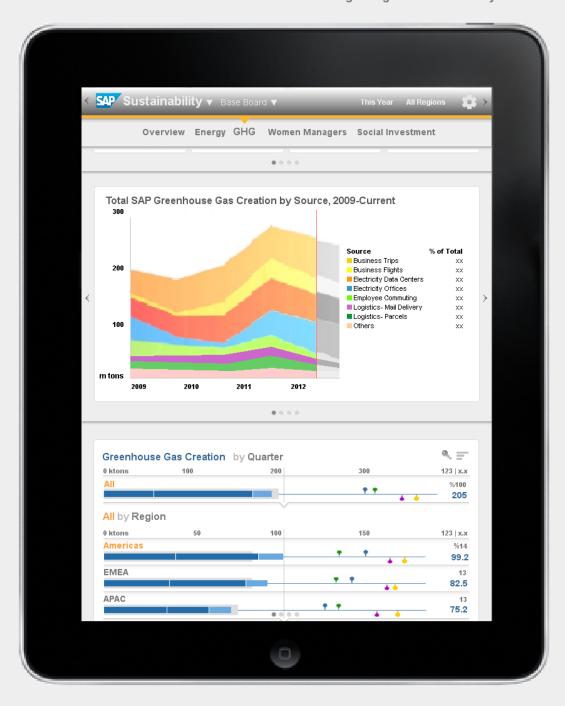
Here we see only the aggregate summary row for a default Measure (GHG Creation) and universally-applied Cross Dimension (Quarter) dividing up the default Time period set in the Board Filter (This Year). It expands into the full Lattice view for lightweight search and analysis.



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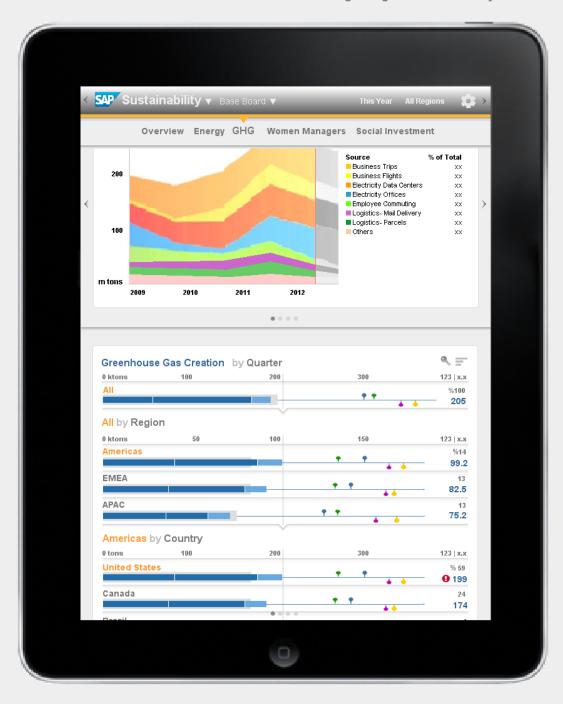
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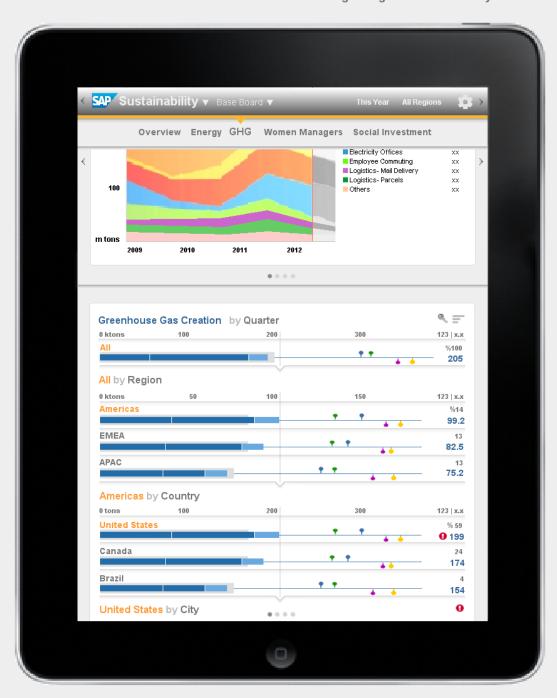
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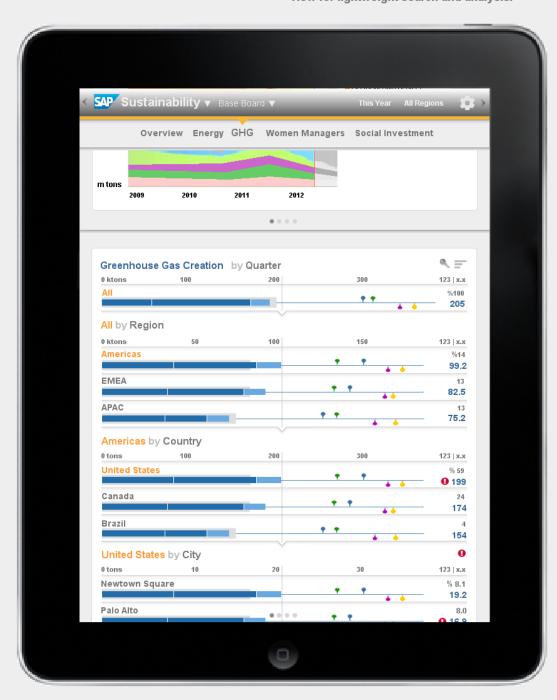
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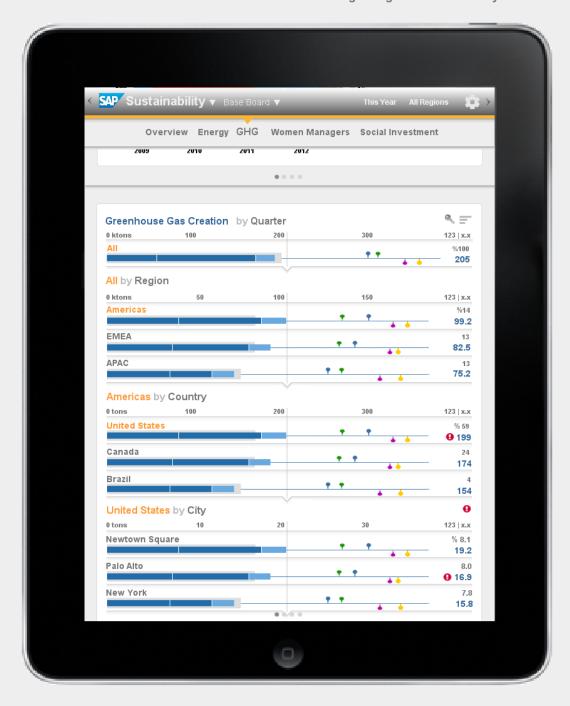
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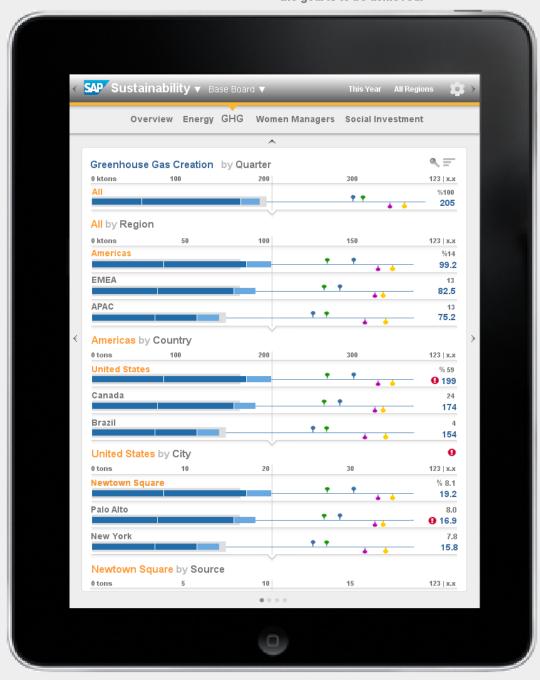
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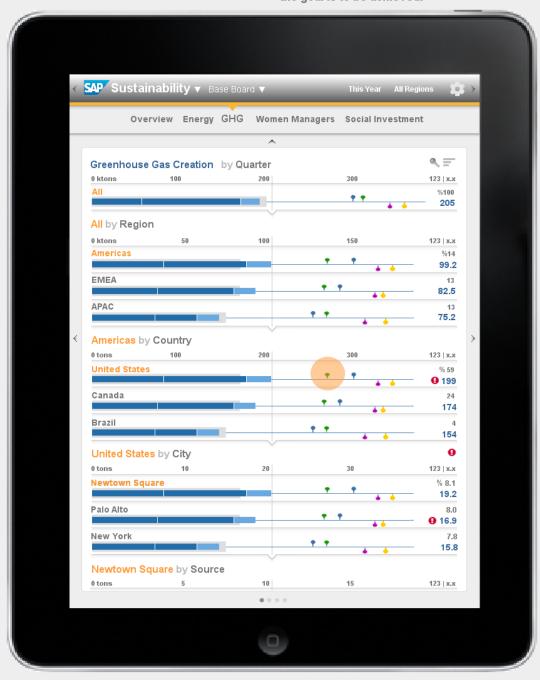
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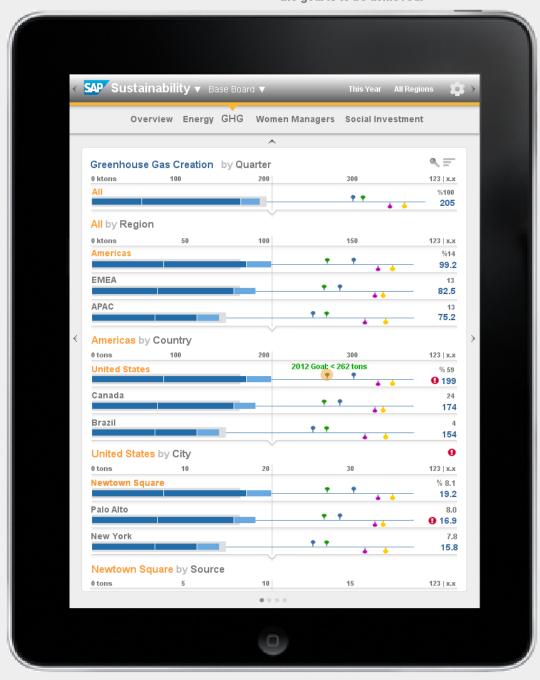
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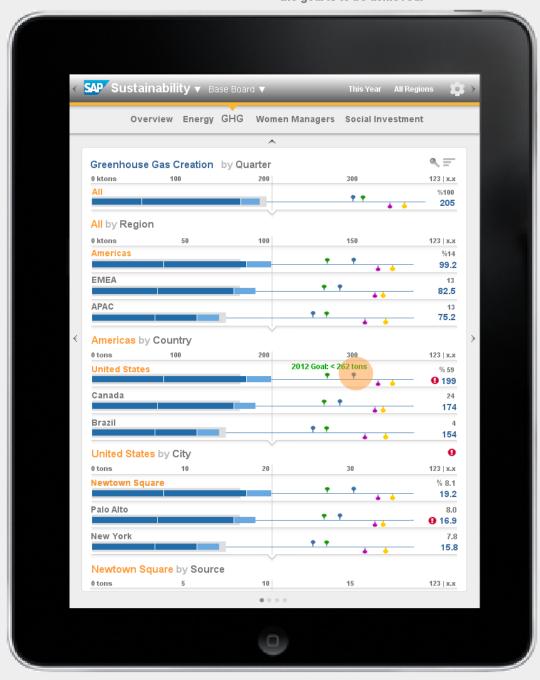
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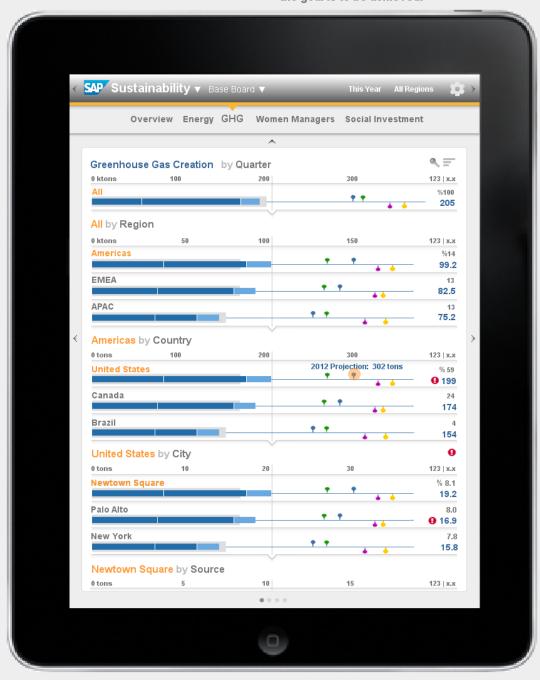
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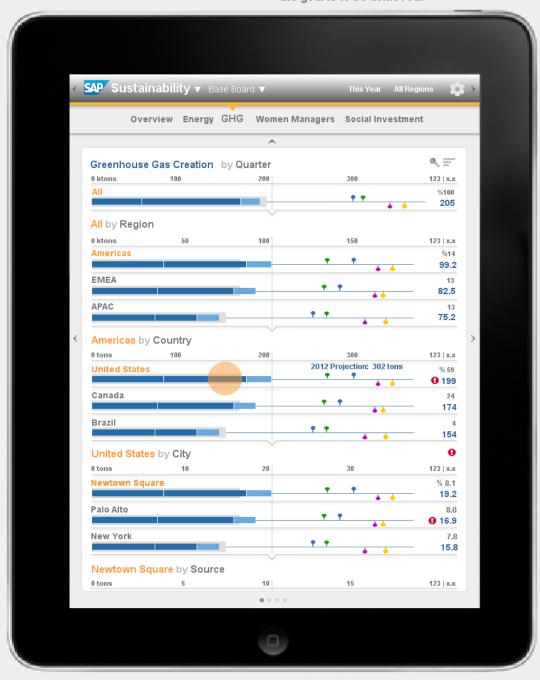
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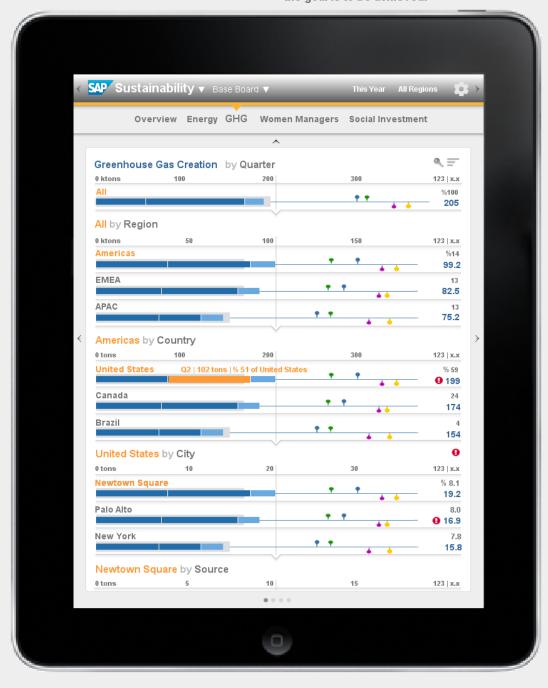
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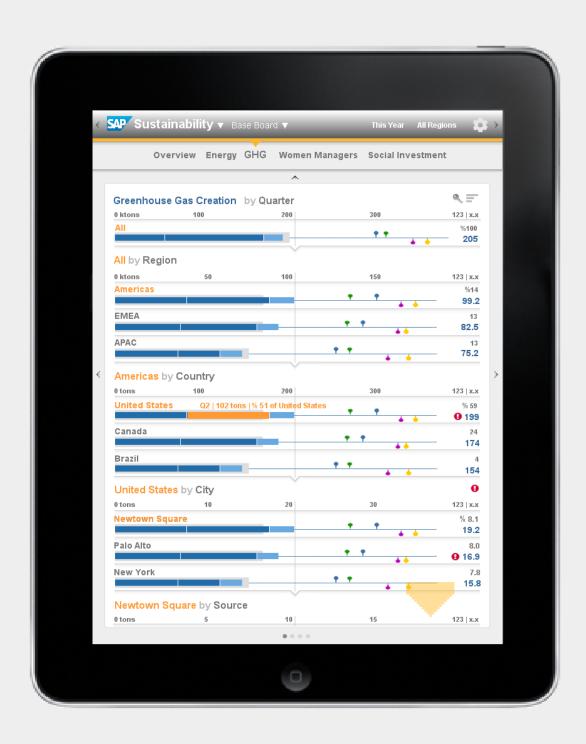


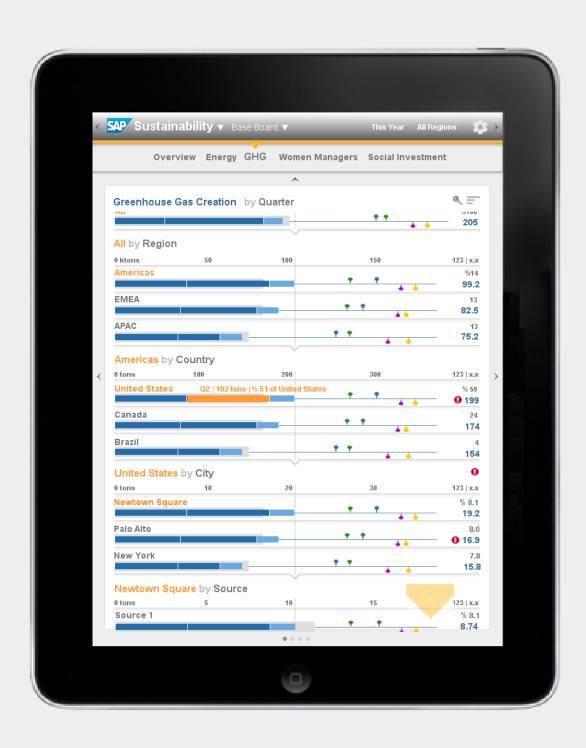
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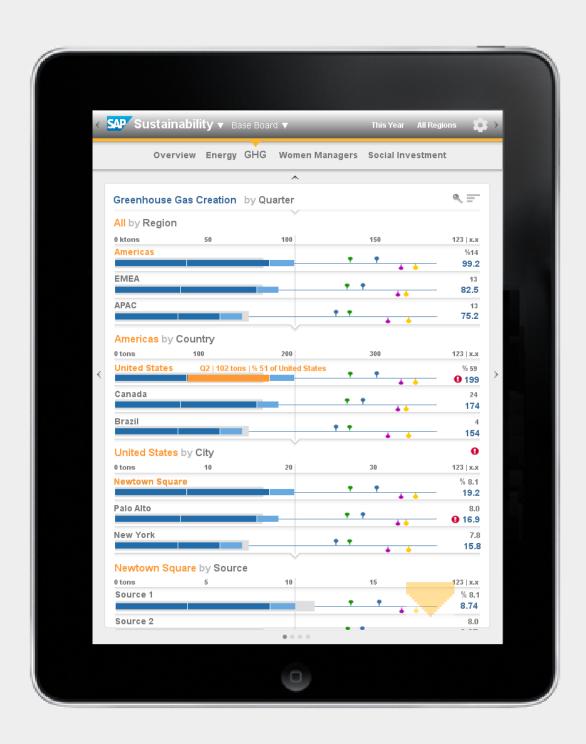


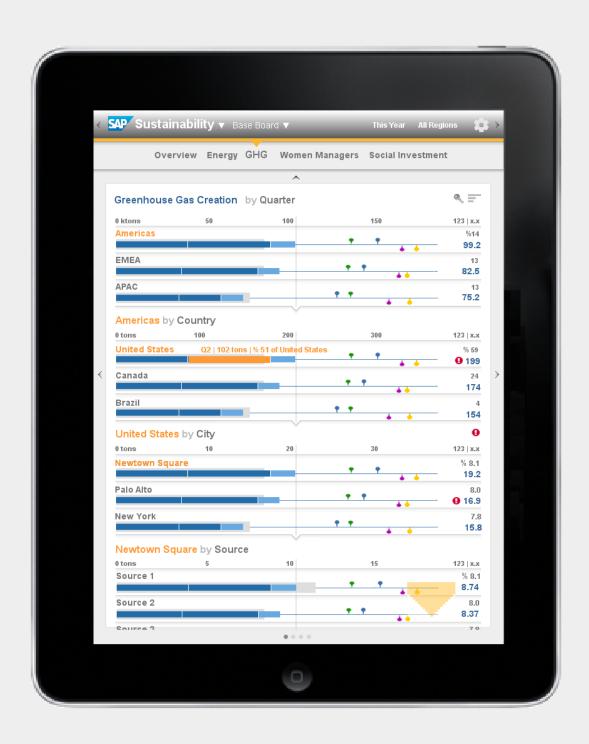
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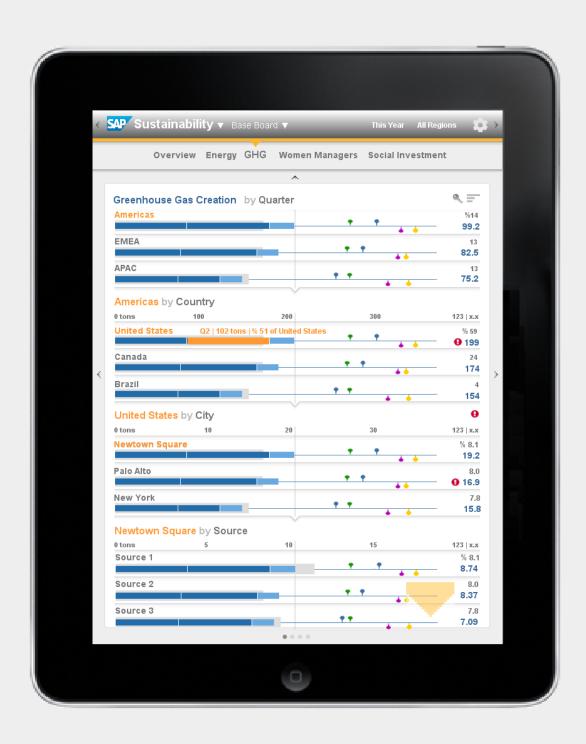


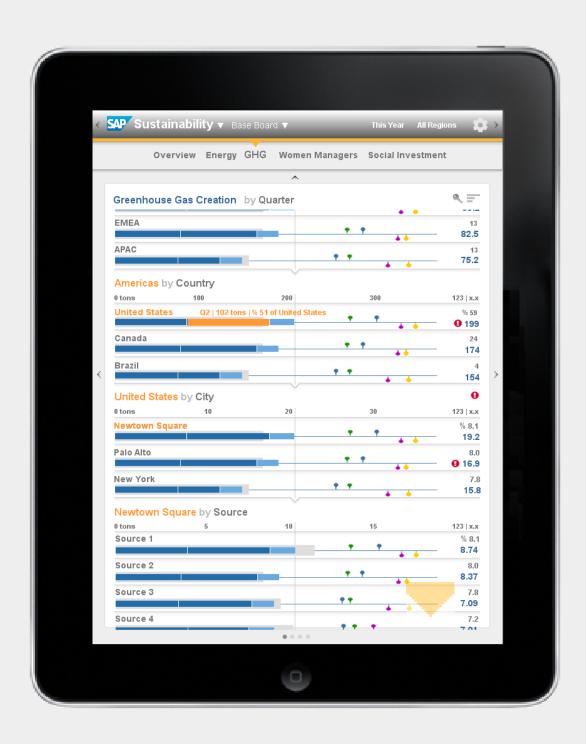


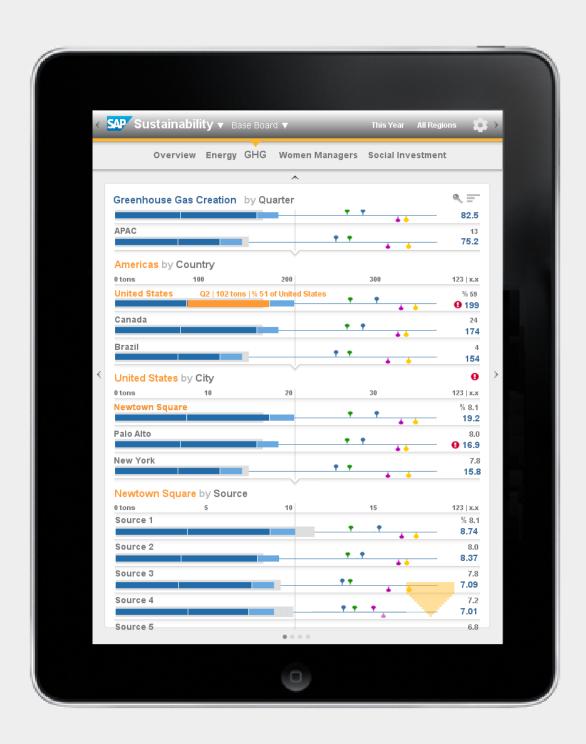


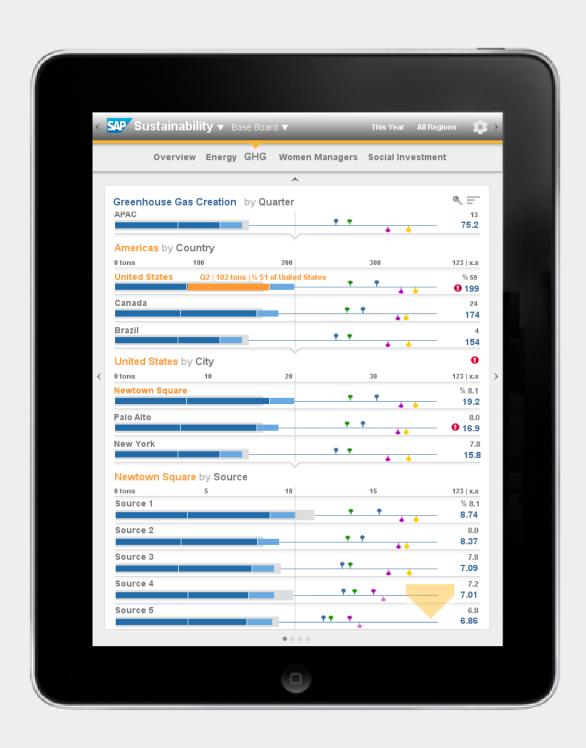


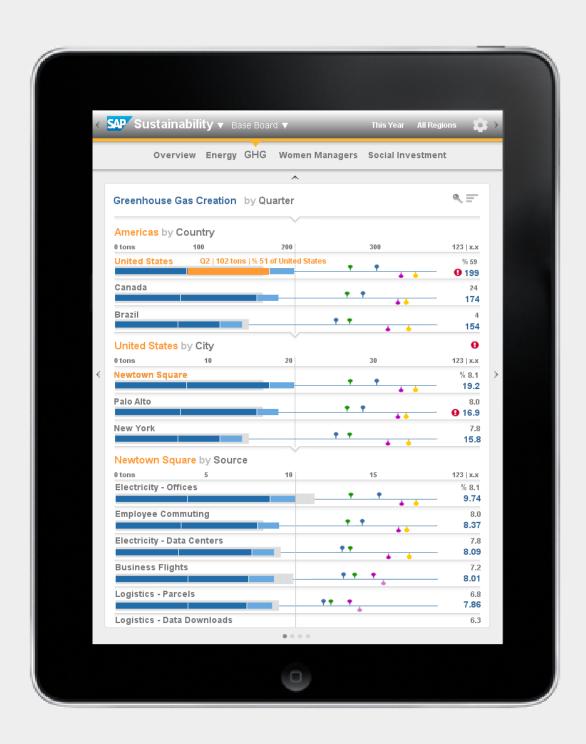






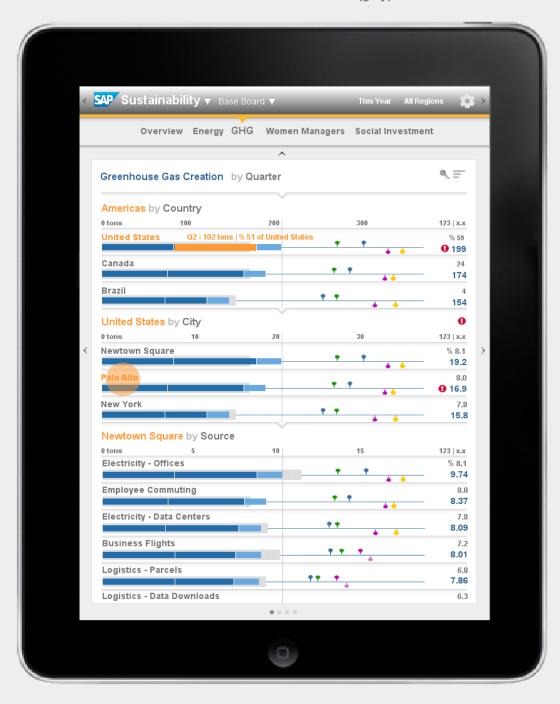






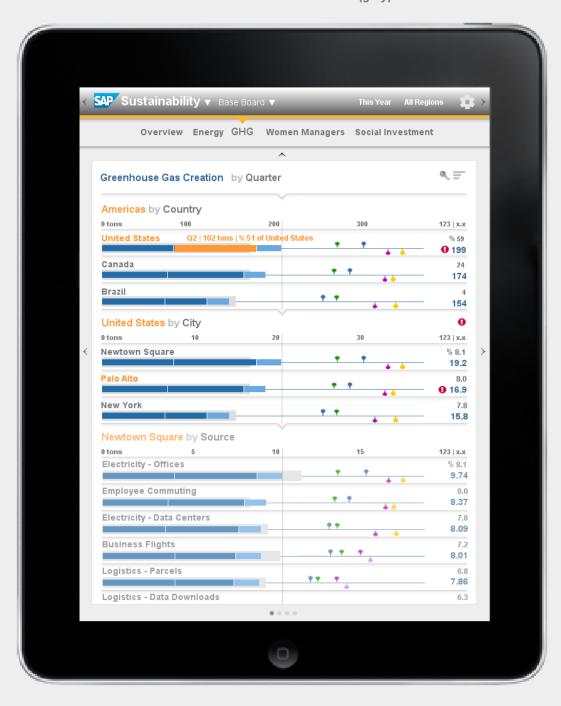
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Here, selecting Palo Alto will change the Source Layer to show emissions by Source from Palo Alto versus from Newtown Square.



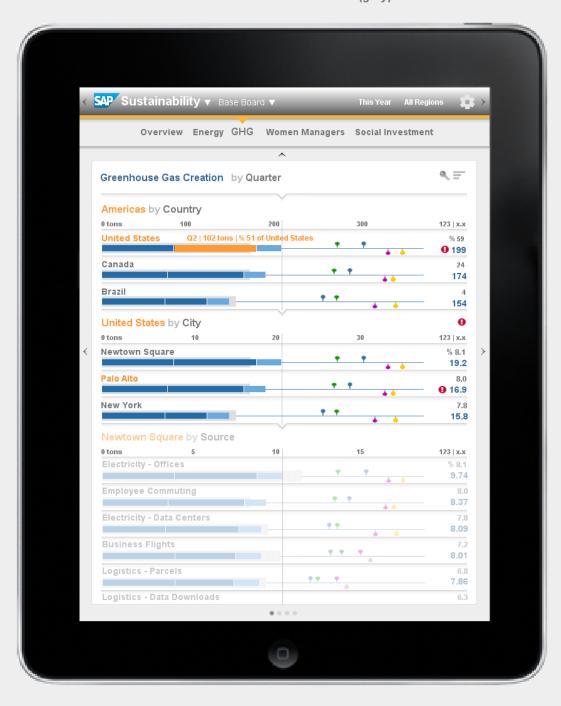
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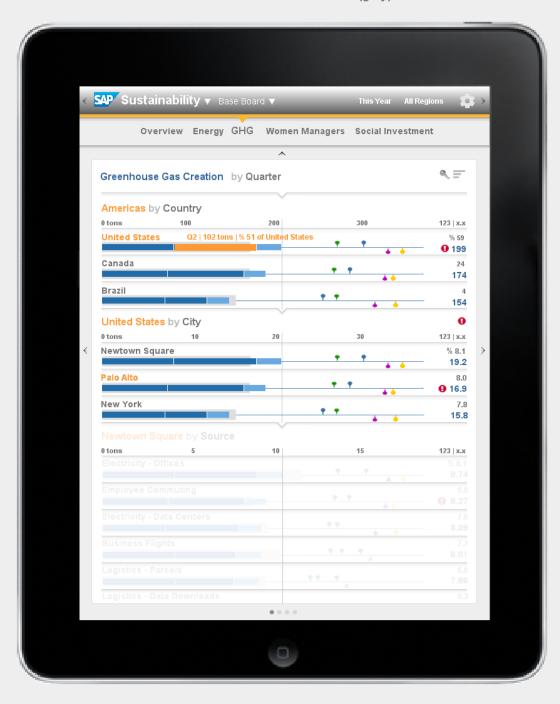
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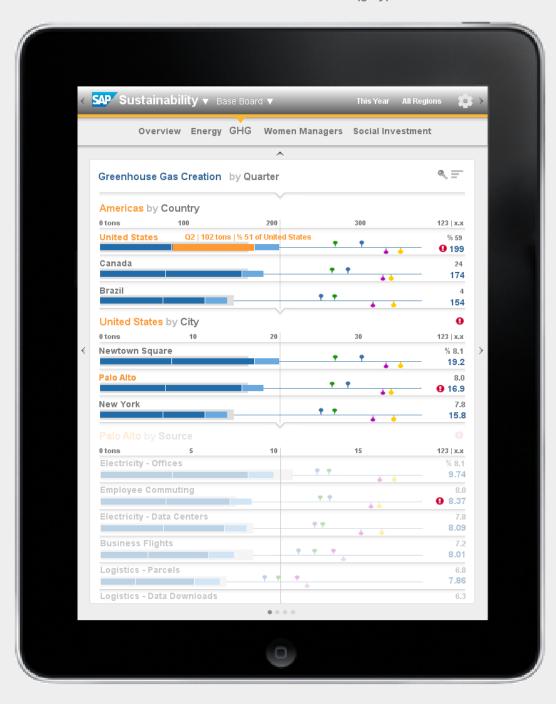
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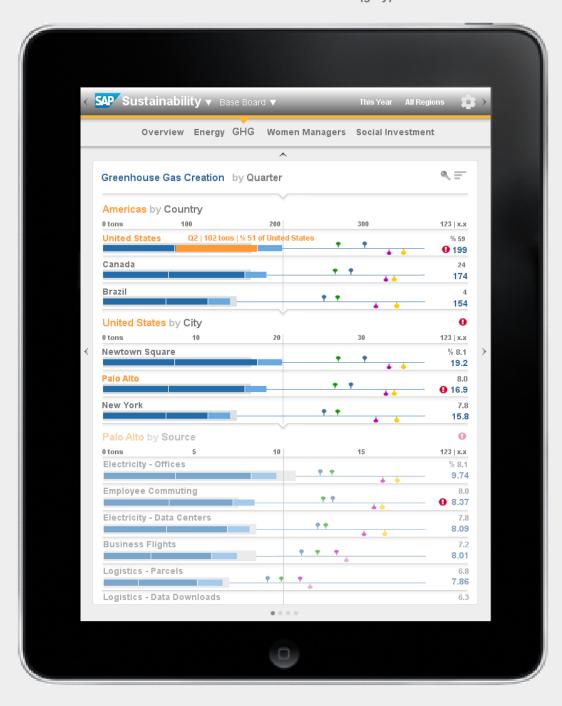
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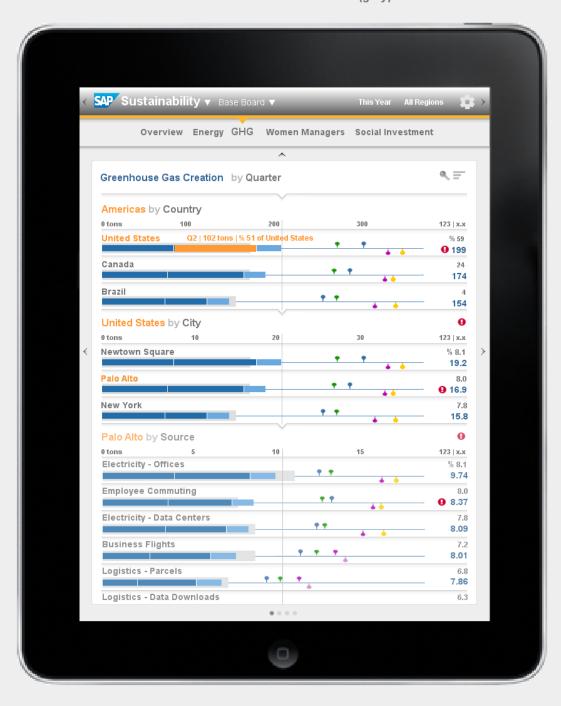
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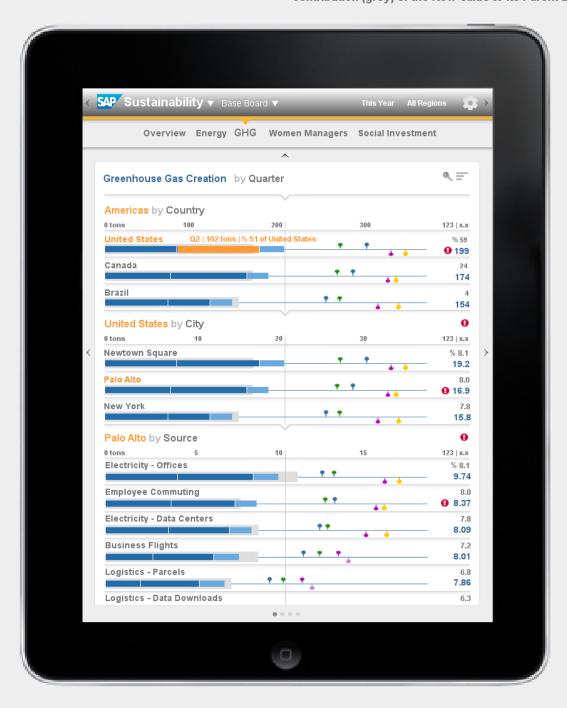
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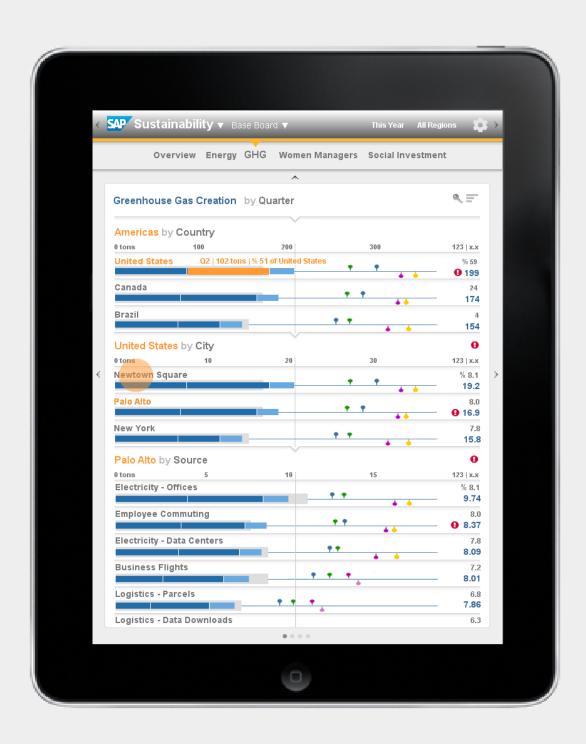
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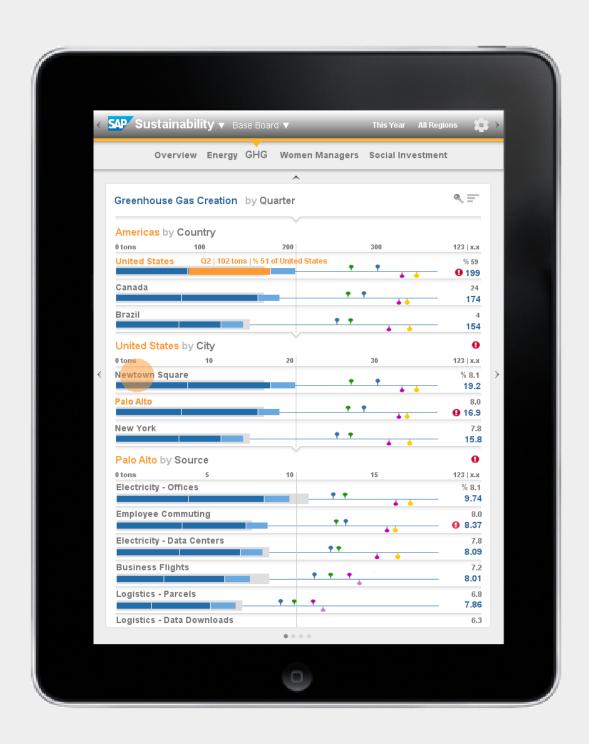


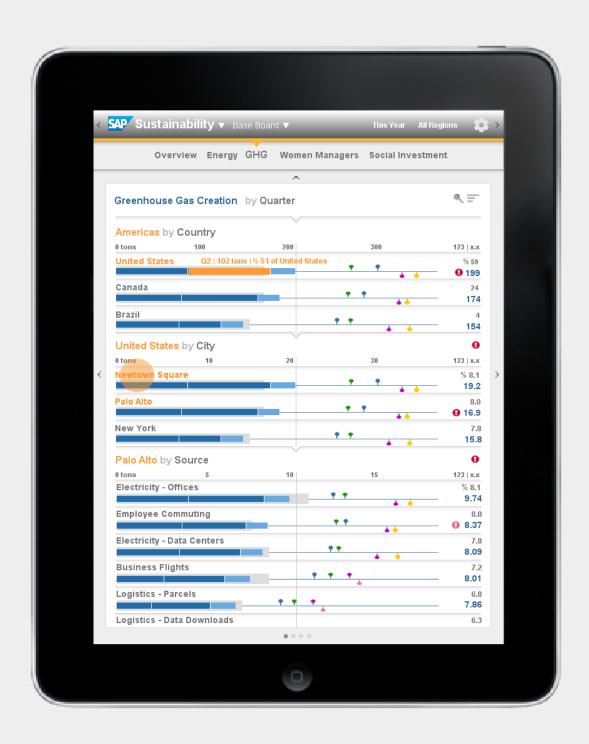
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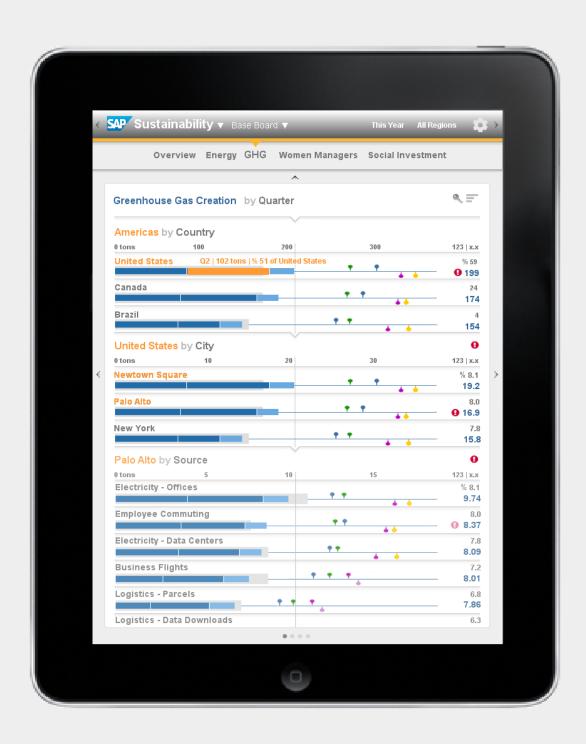
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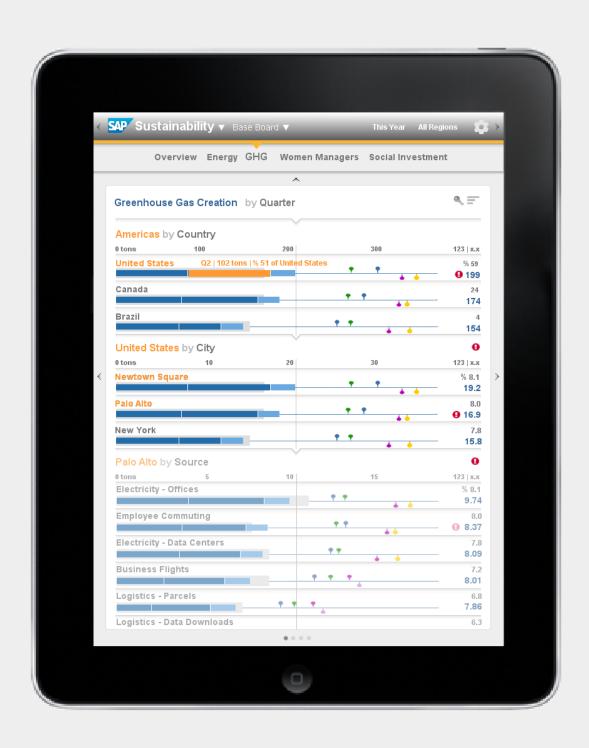


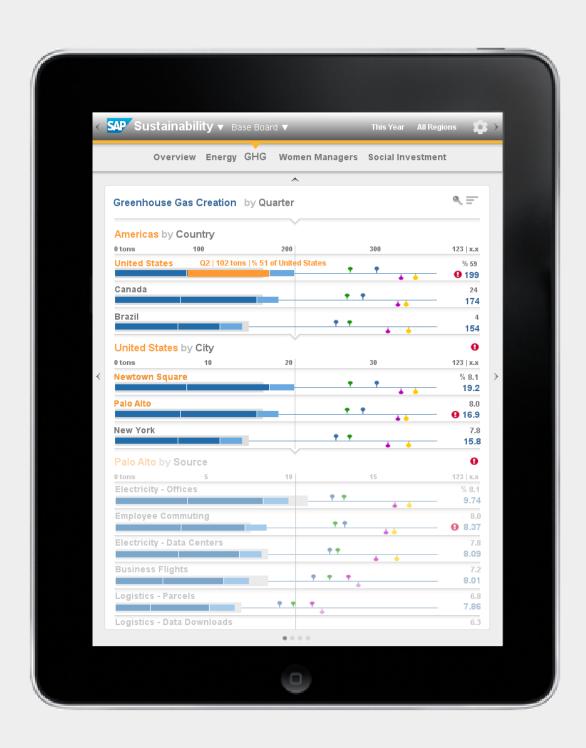


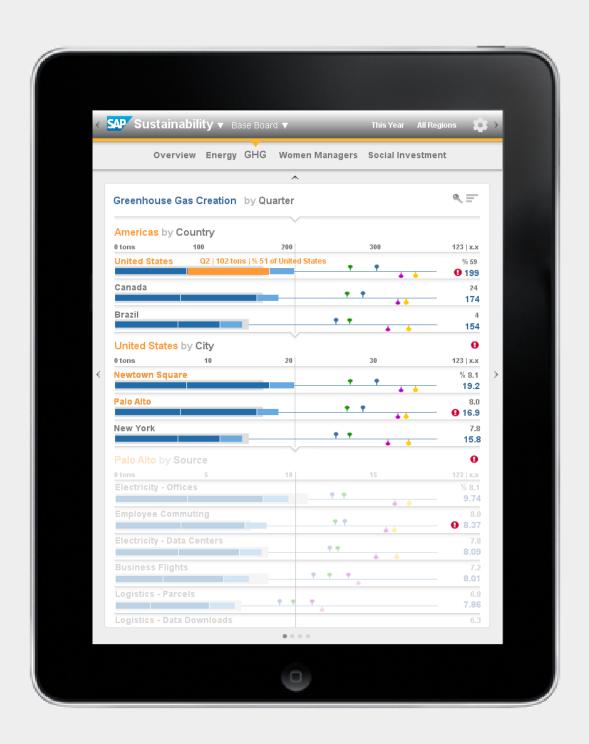


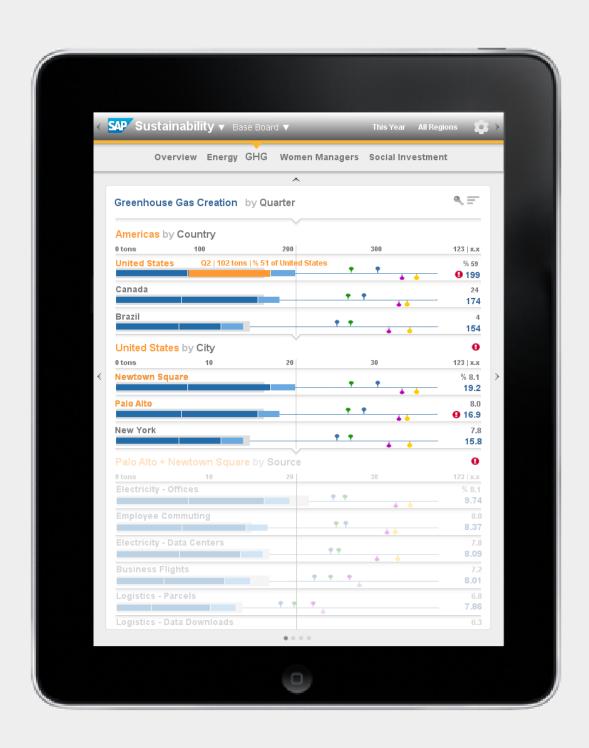


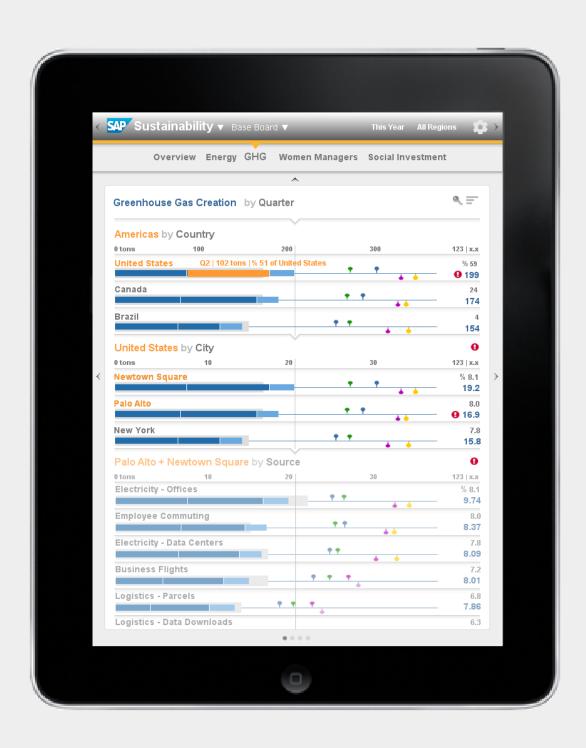


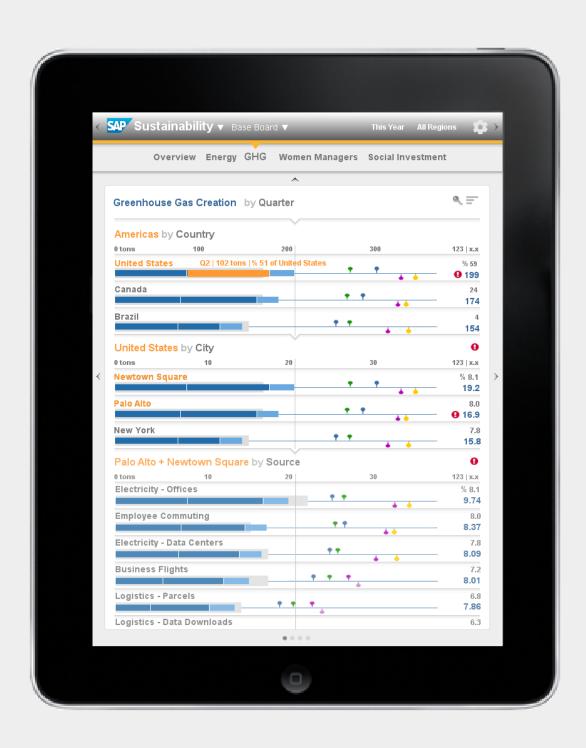


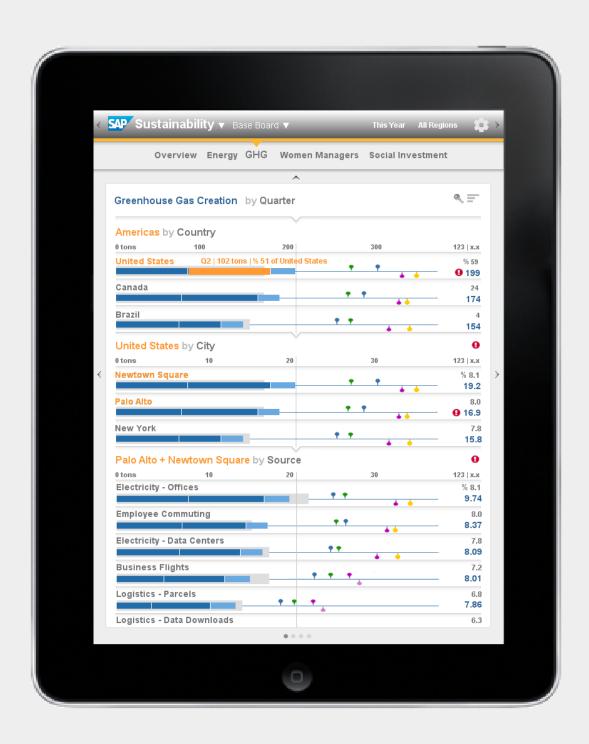


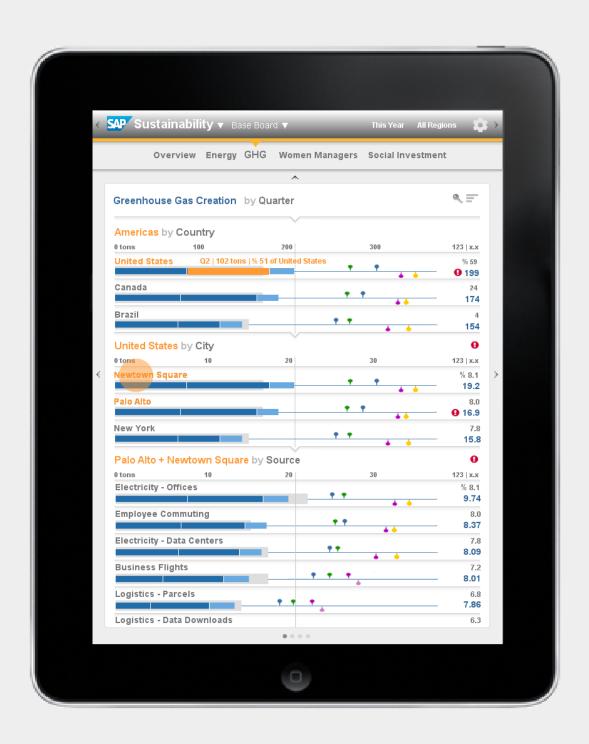


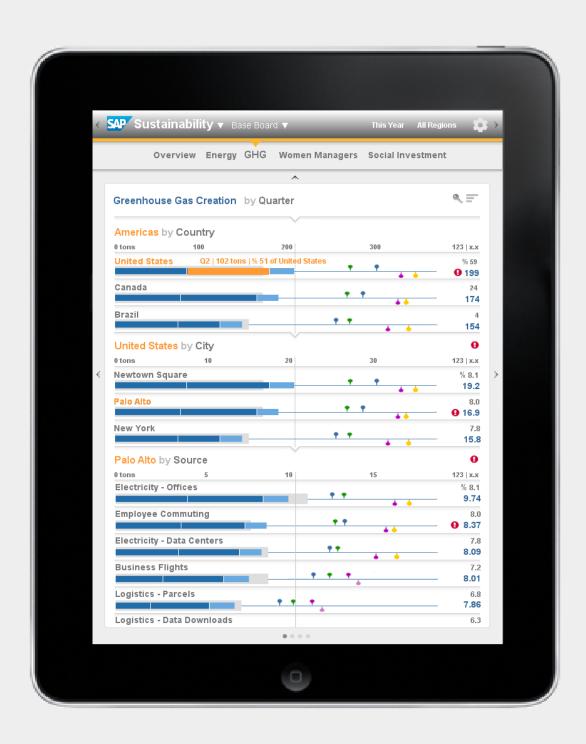






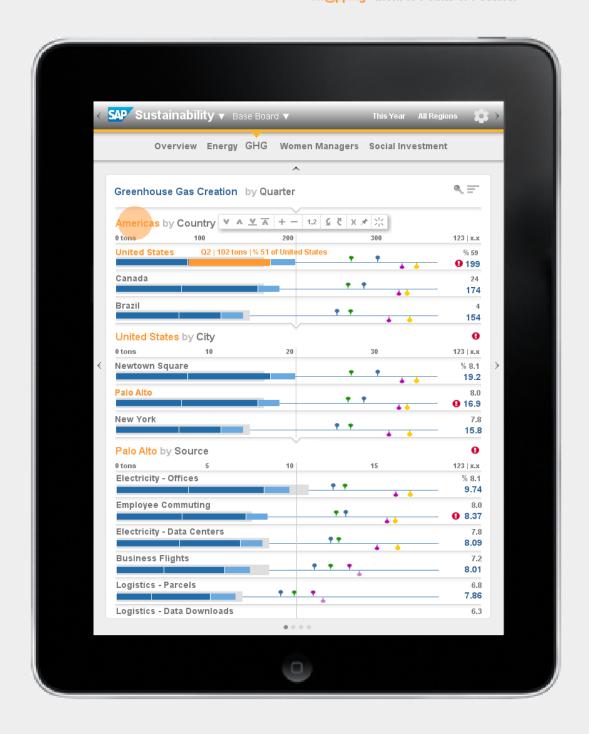


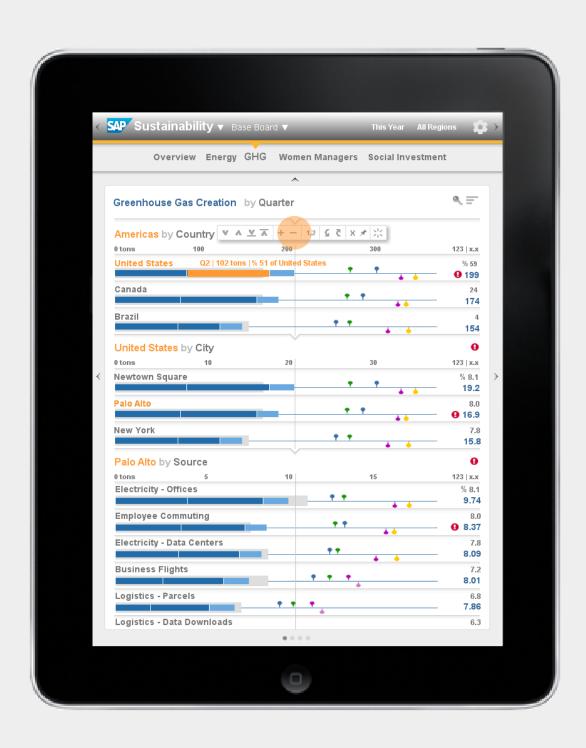


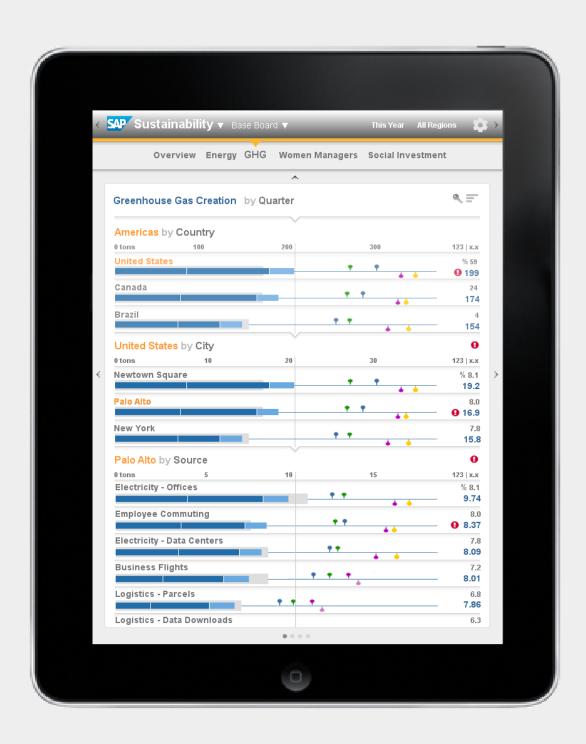


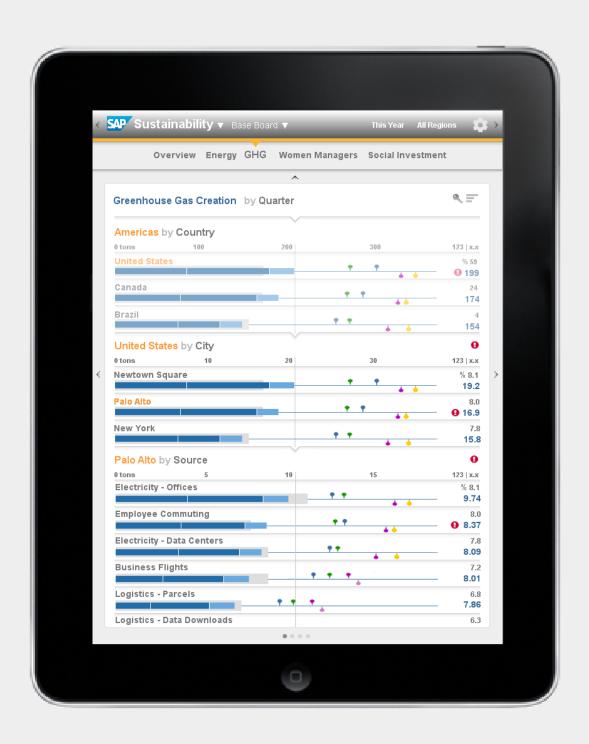
To suit individual viewing and analysis needs, temporarily or as a permanent setting, users can collapse, expand, nullify, or re-arrange Layers, Measures, and Rows in the Dimension Stack.

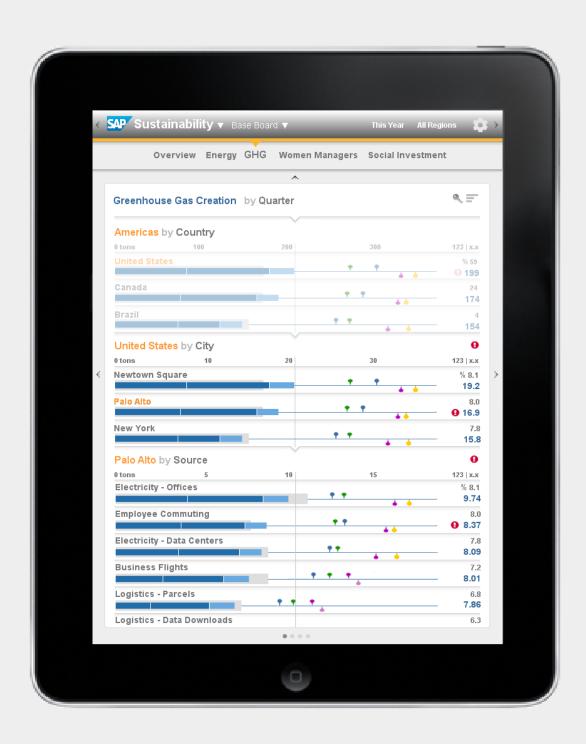
Touching the Layer Title reveals a toolbar of manipulation controls for scrolling within the layer, expand/contract, sort options, shuffling Layers, nullifying, pinning, and "Sn@pping" them to Points or Posters.

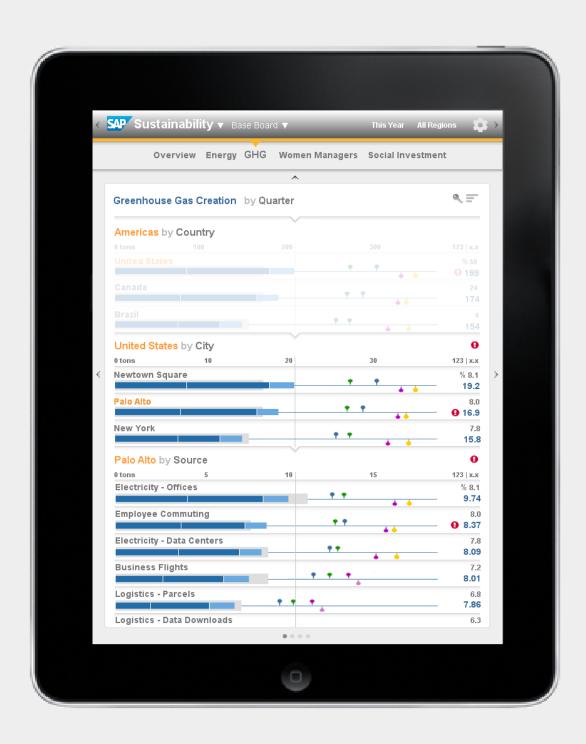


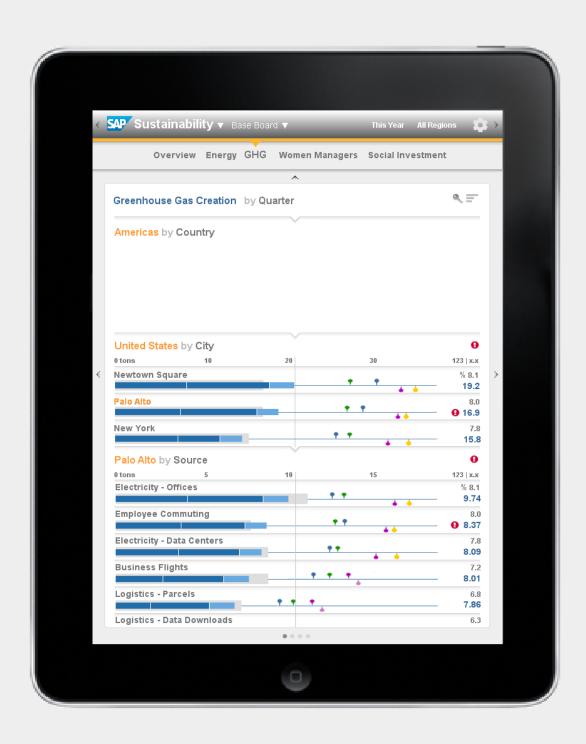


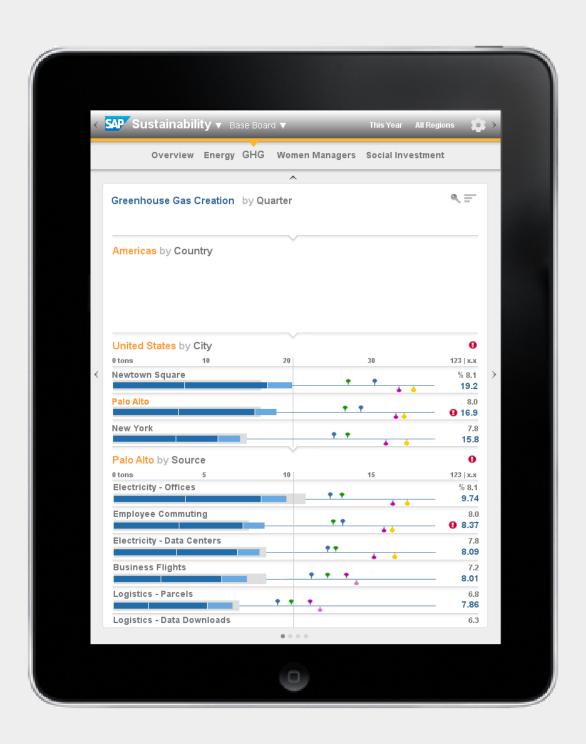


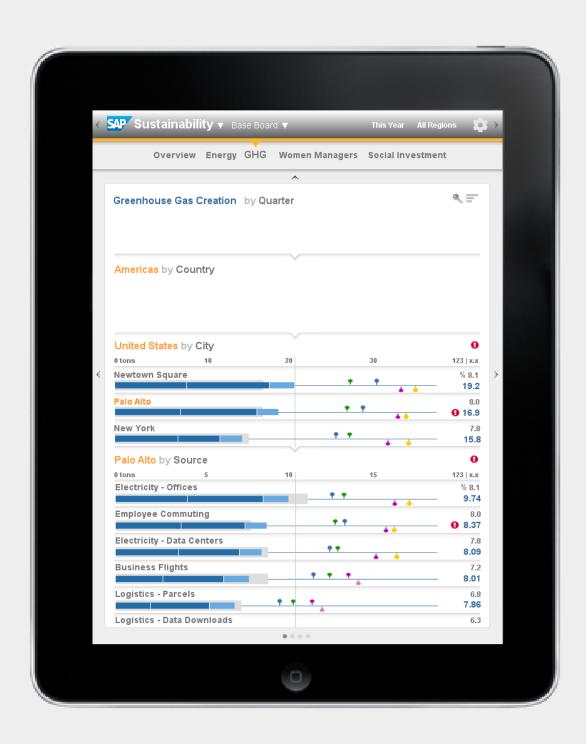


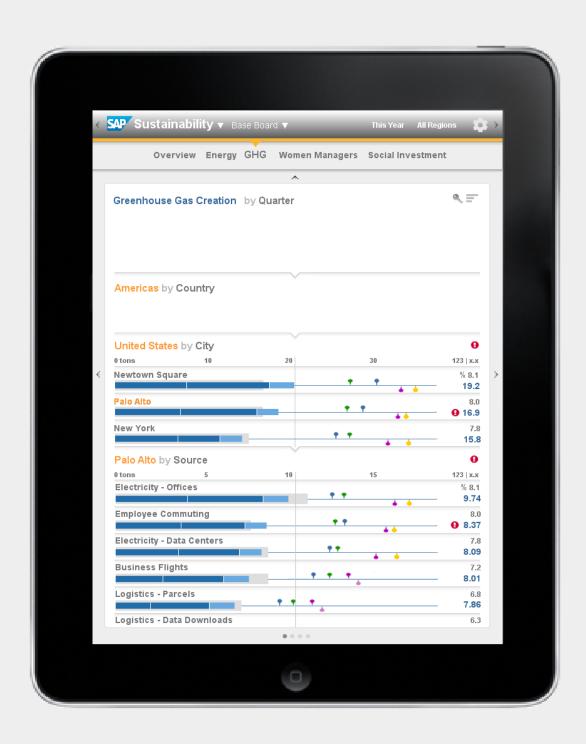


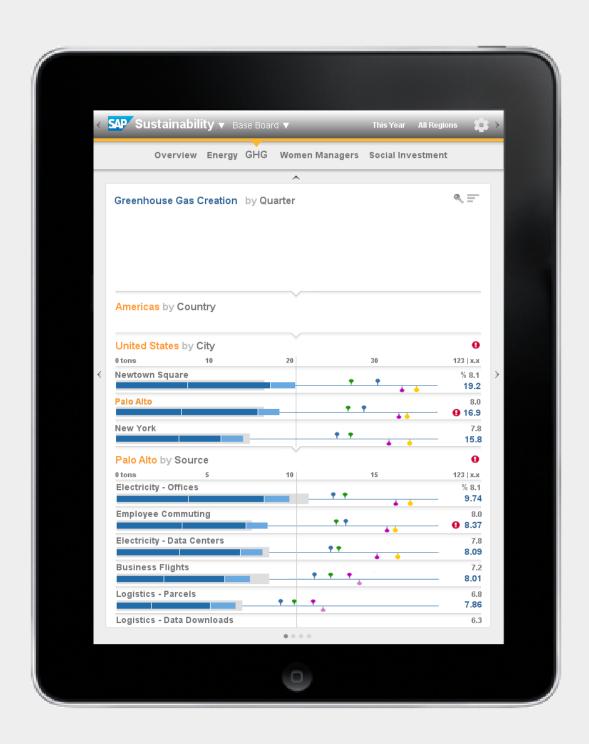


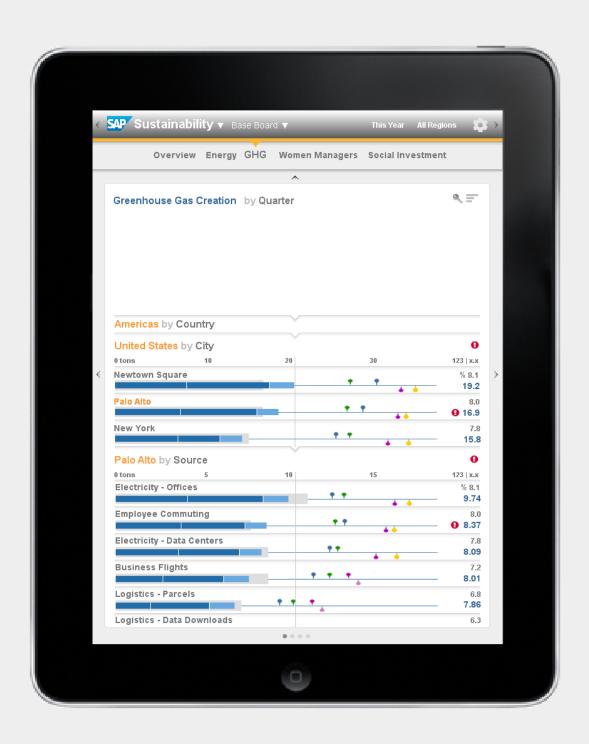


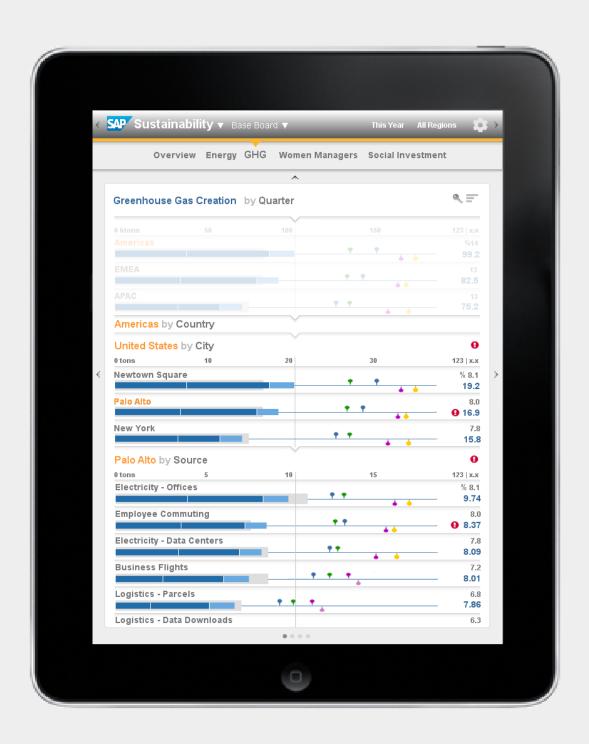


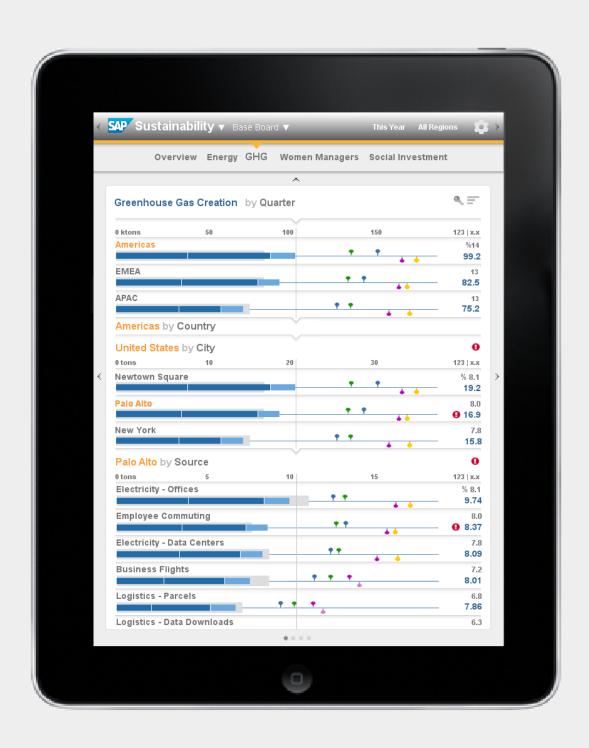


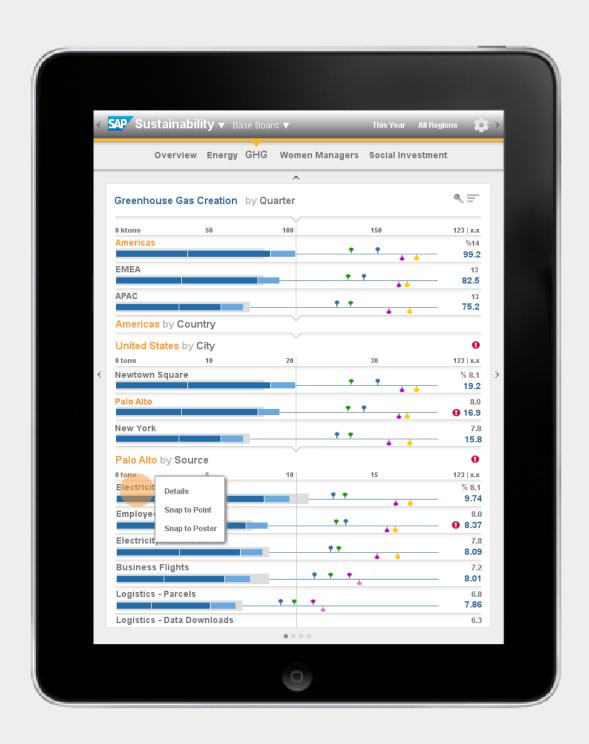


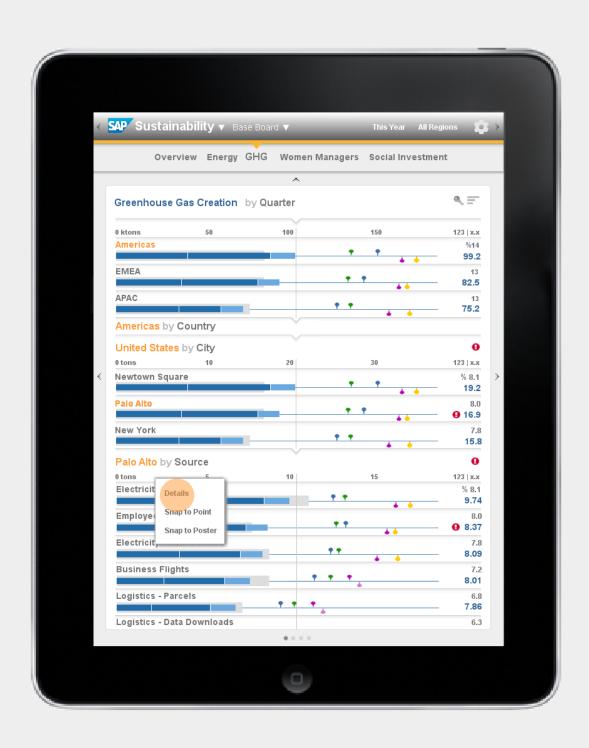


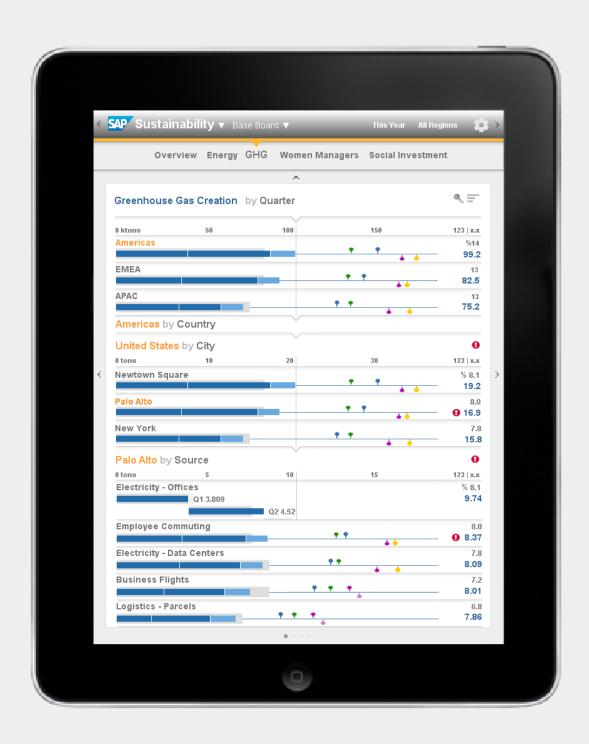


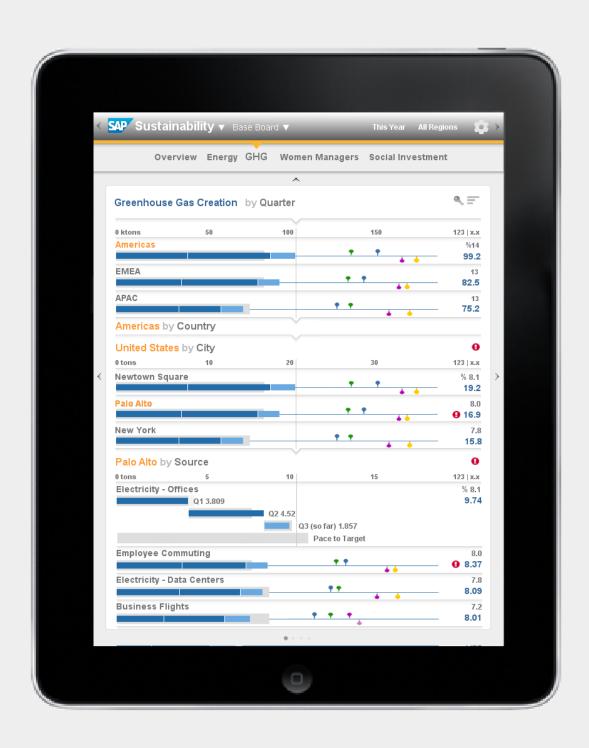


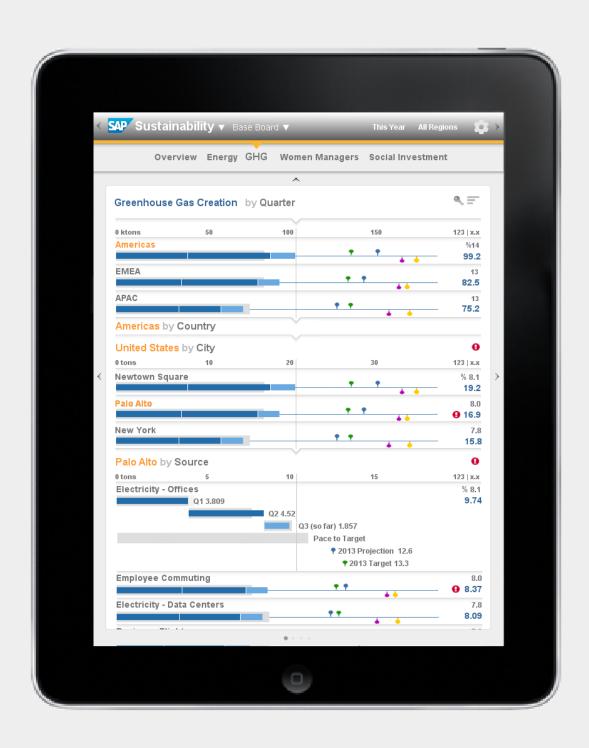


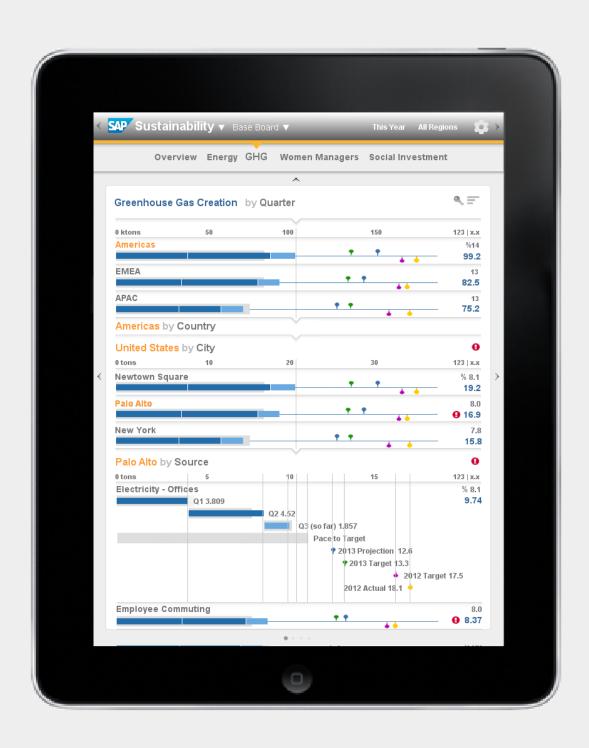


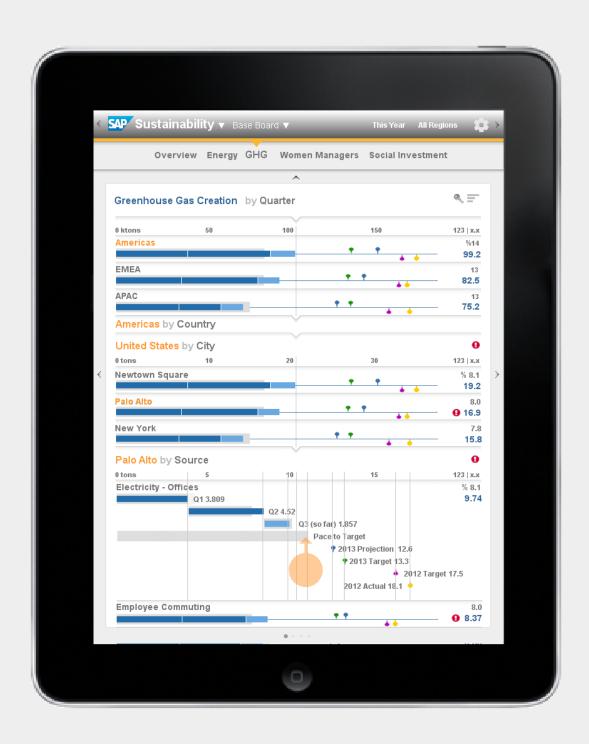




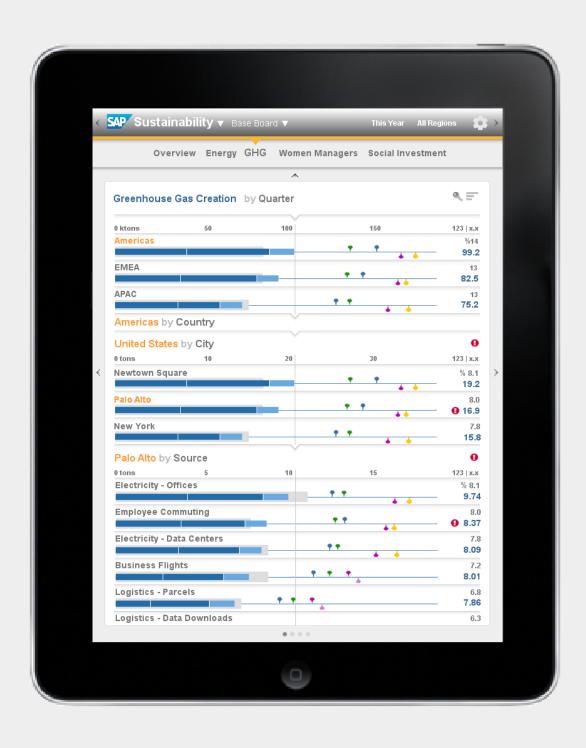




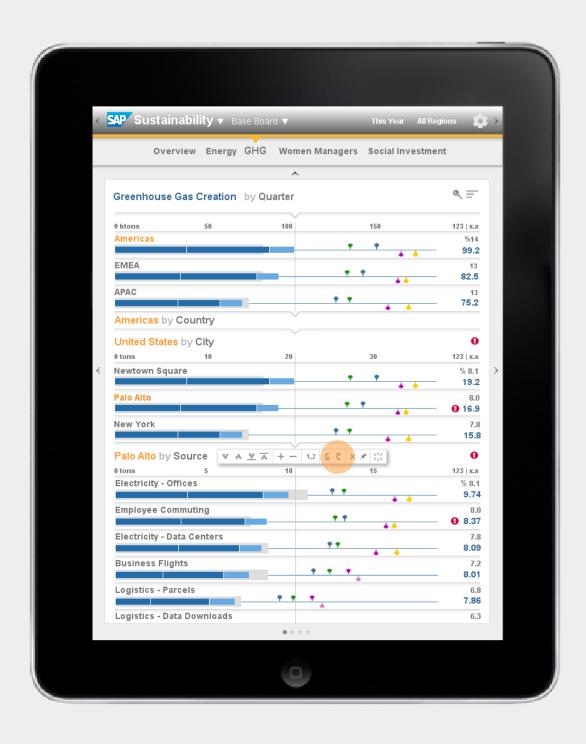




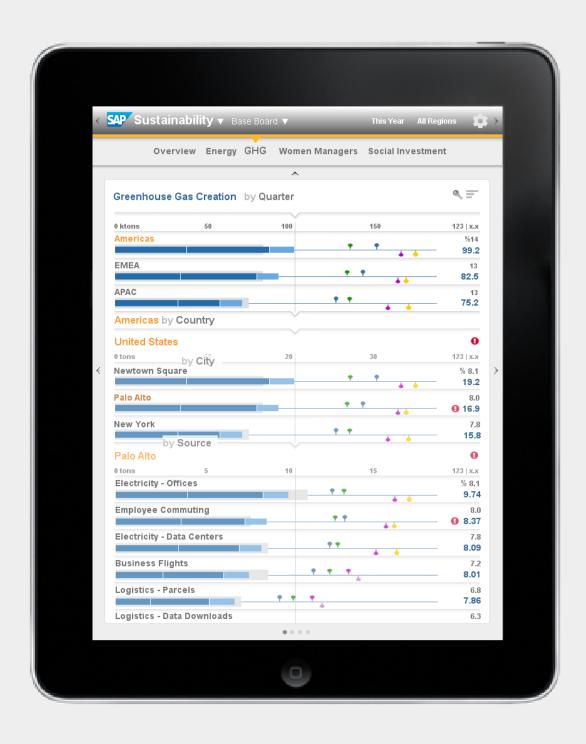
If the Lattice Stack Layers appear only in a fixed vertical order, then alternate ways of subdividing the data are not possible. Shuffling Stack Layers enables alternate ways of "slicing and dicing" a data set.



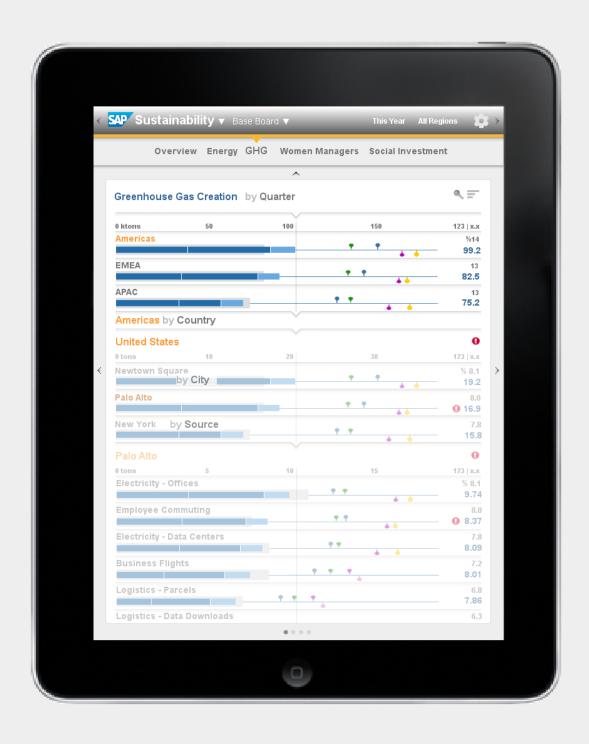
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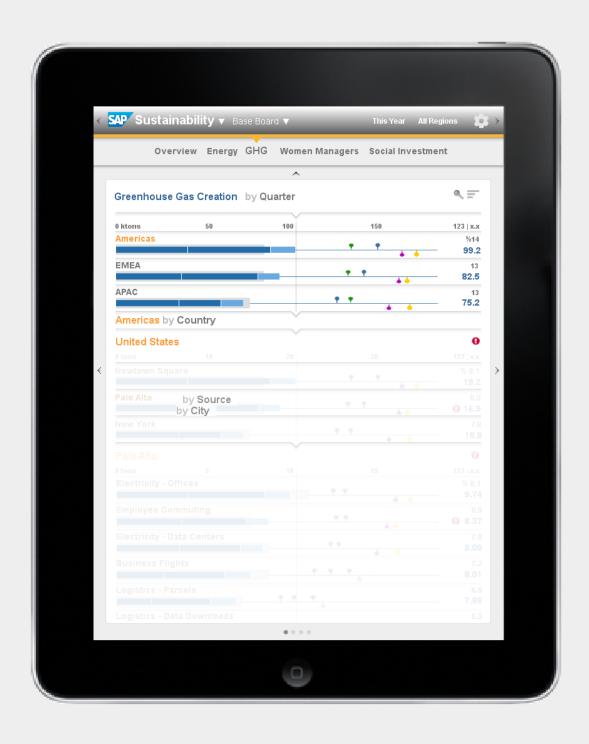
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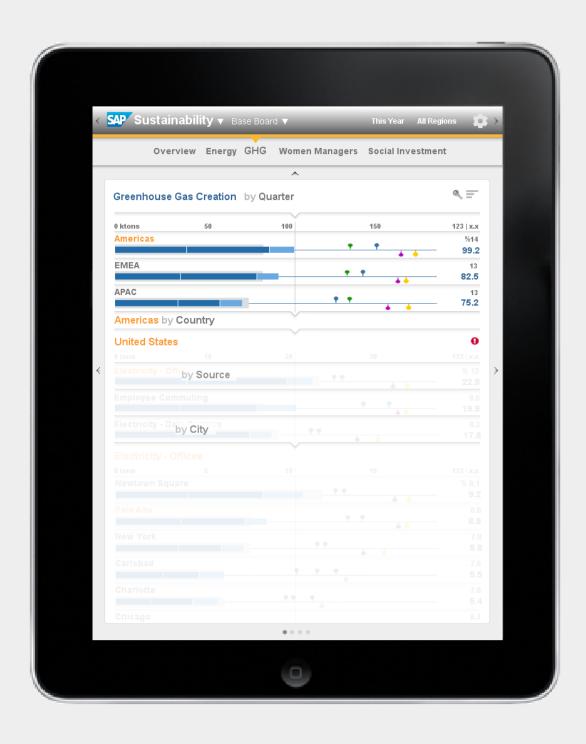
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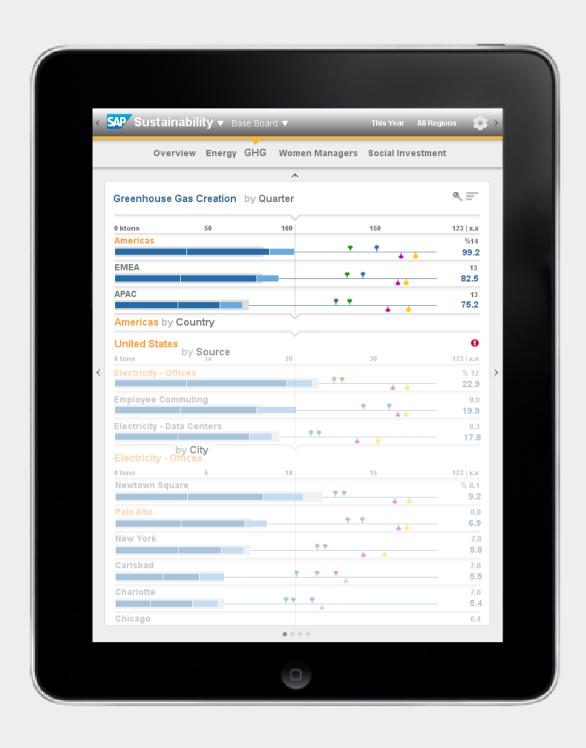
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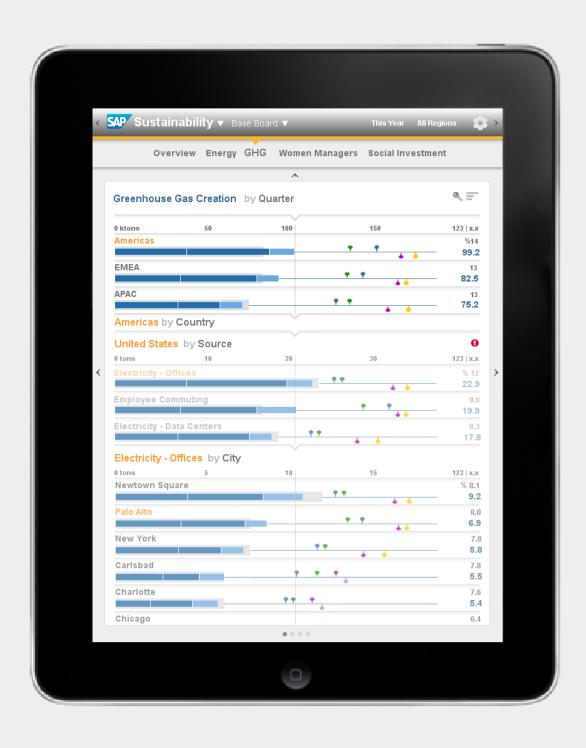
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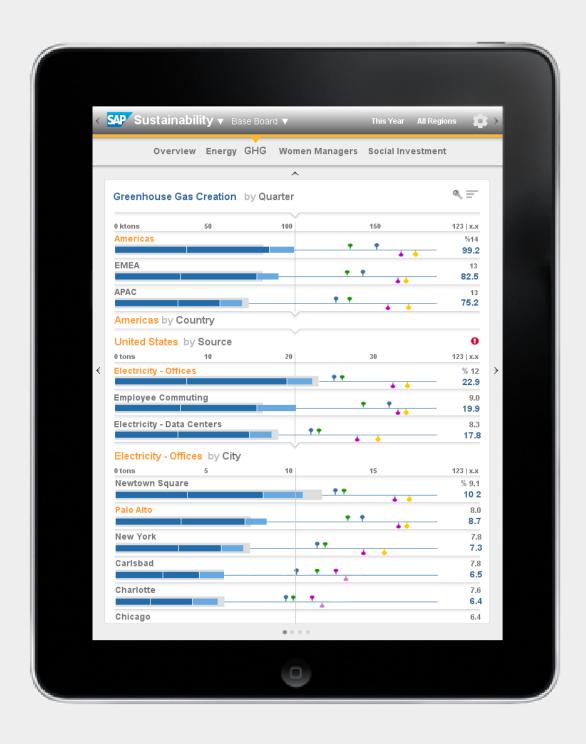
Here, Source will be moved above City. This will reveal the aggregated GHG numbers by Source for the United States, a figure not readily revealed before.



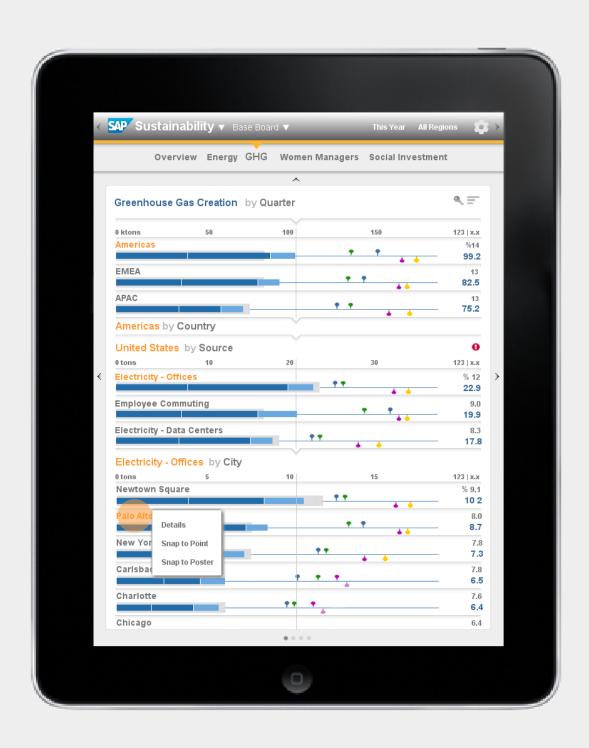
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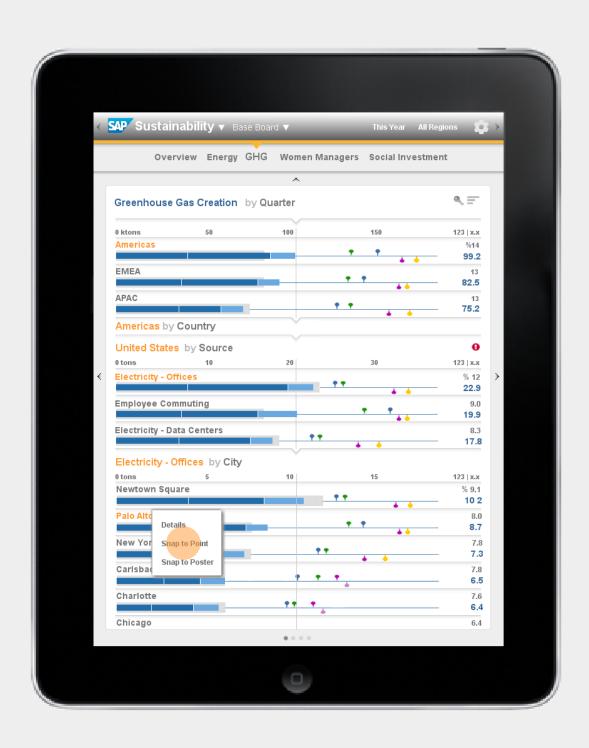
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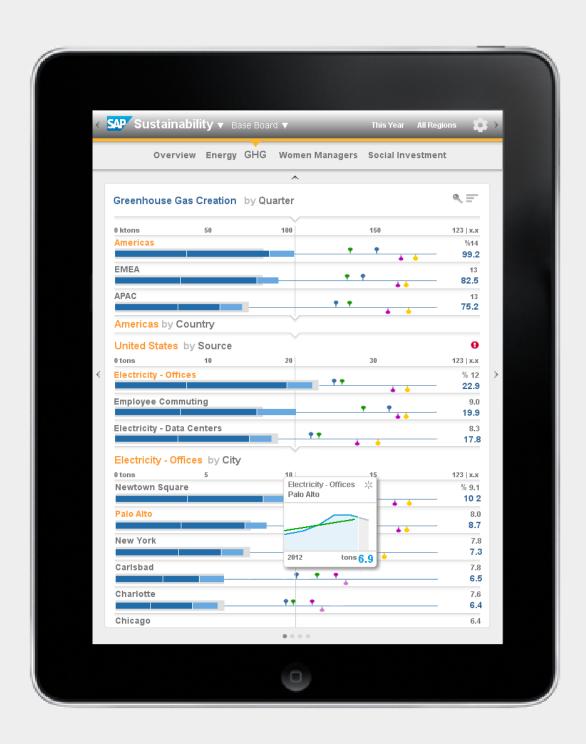
Sn@pping a Row captures the Row's content and converts it into a Point, Sn@p's standard micro-chart format, and copies it, like a bookmark, into a new spot in the Board's Digest.



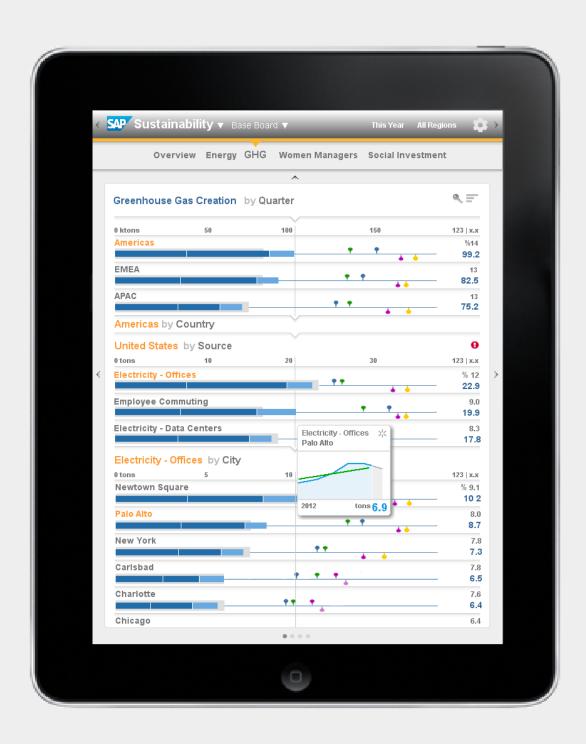
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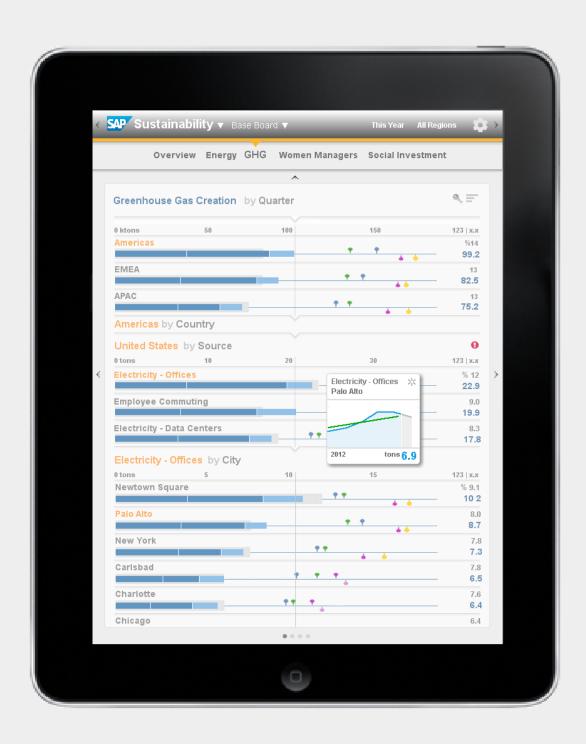
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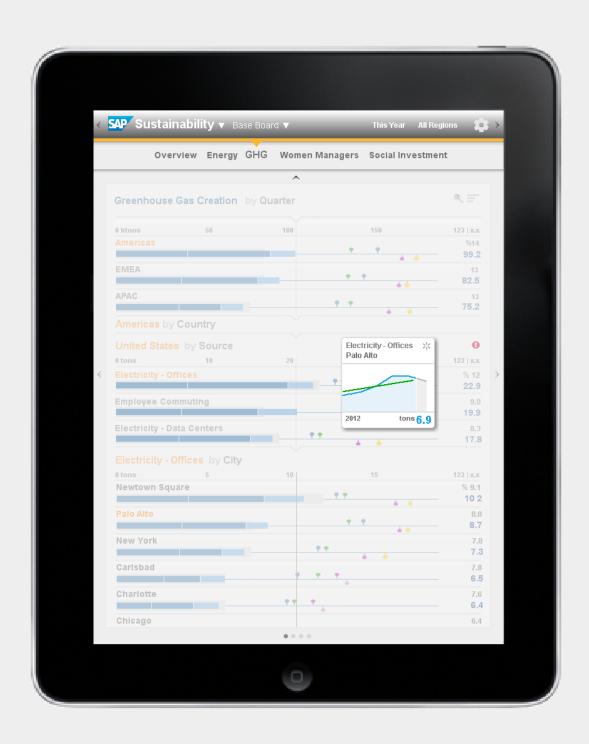
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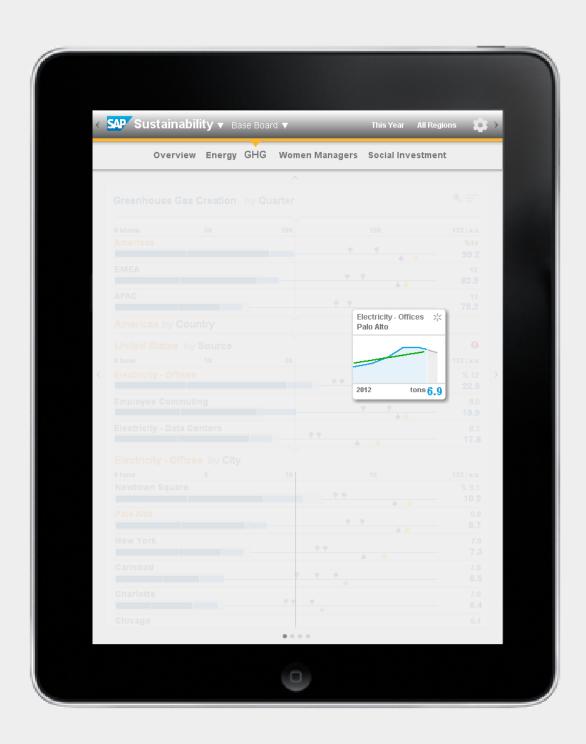
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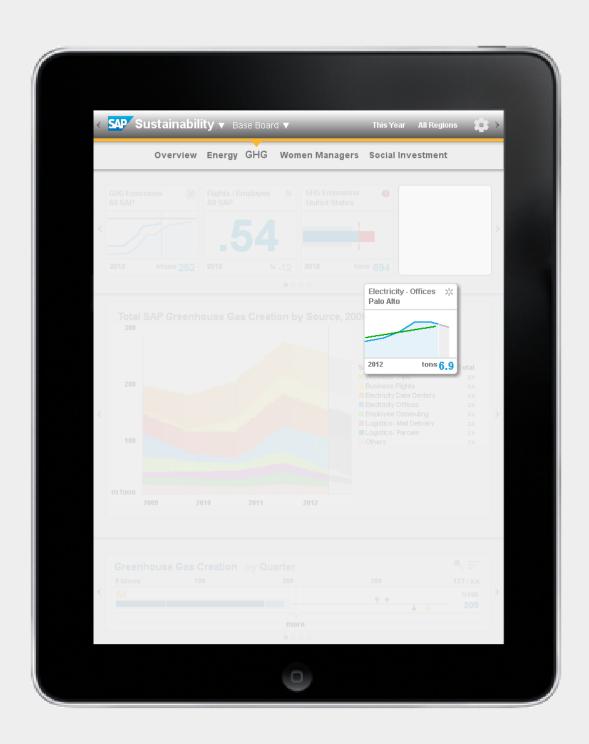
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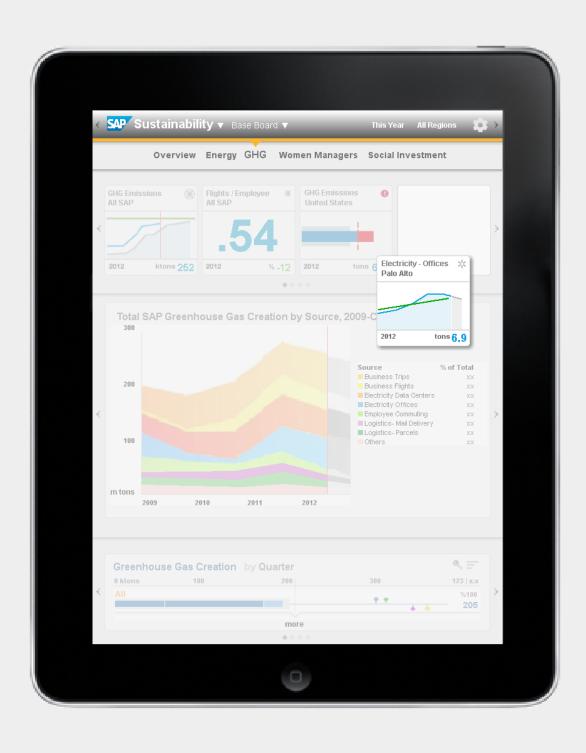
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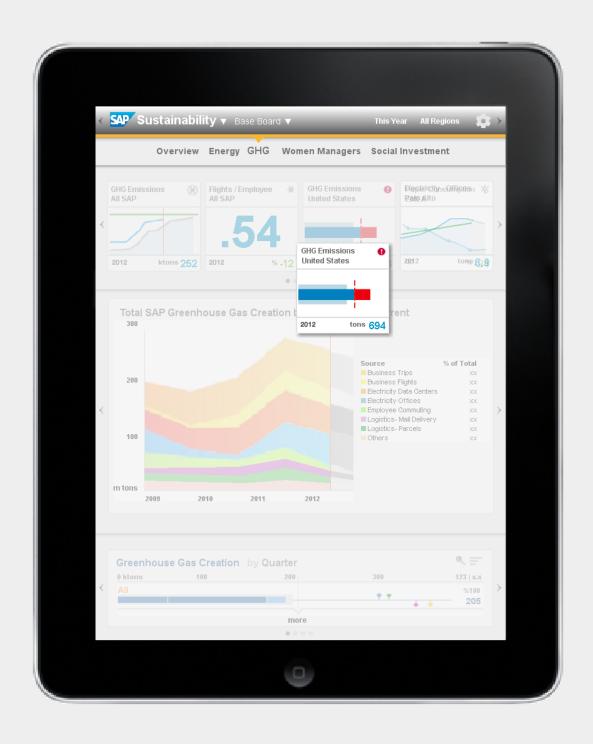
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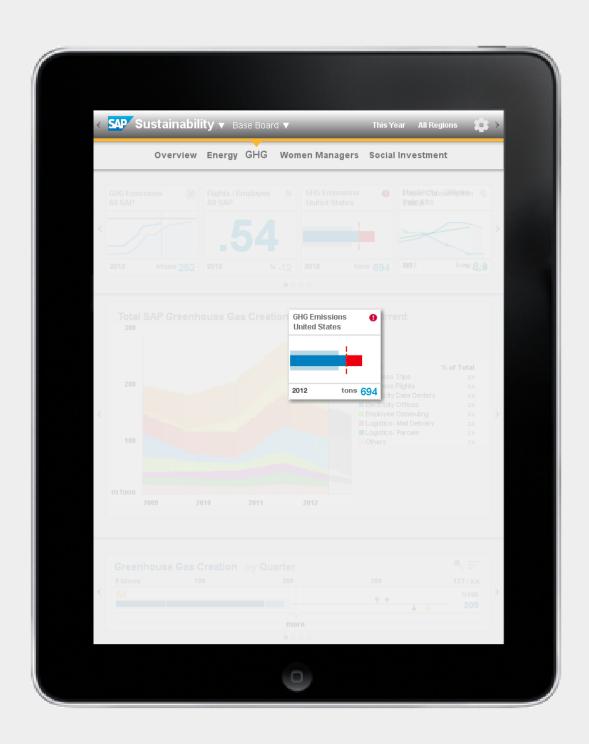


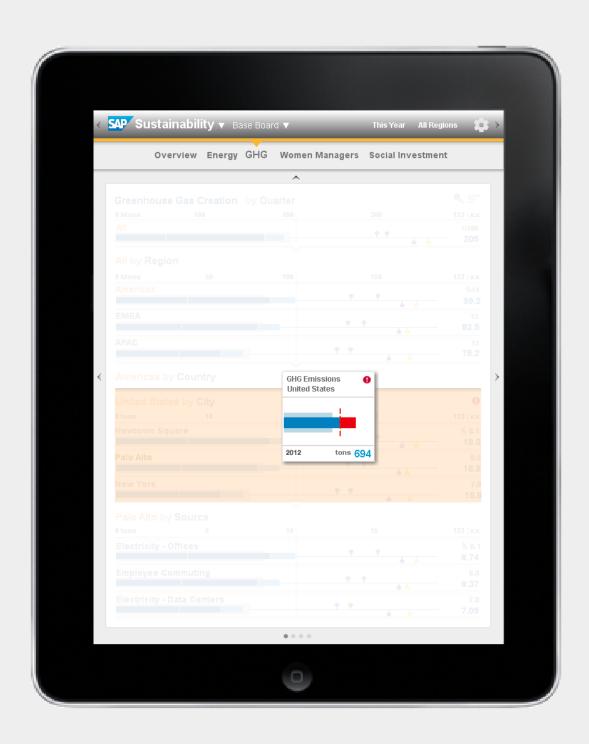


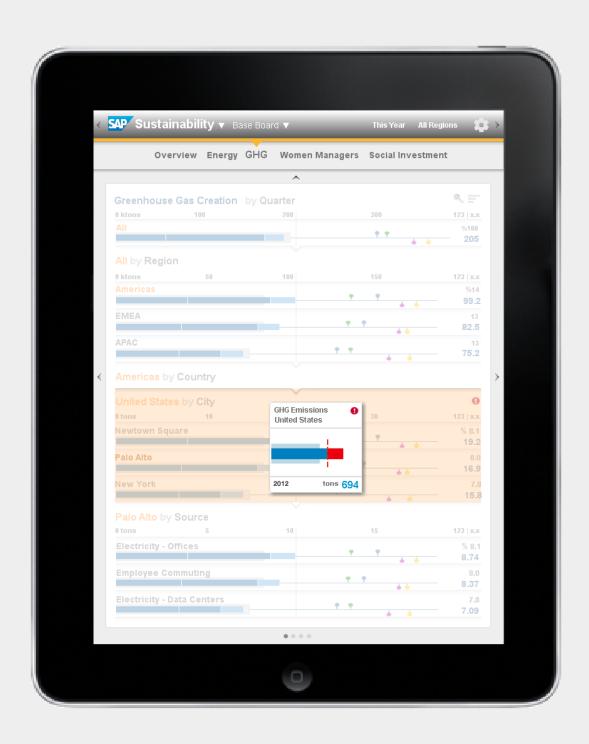


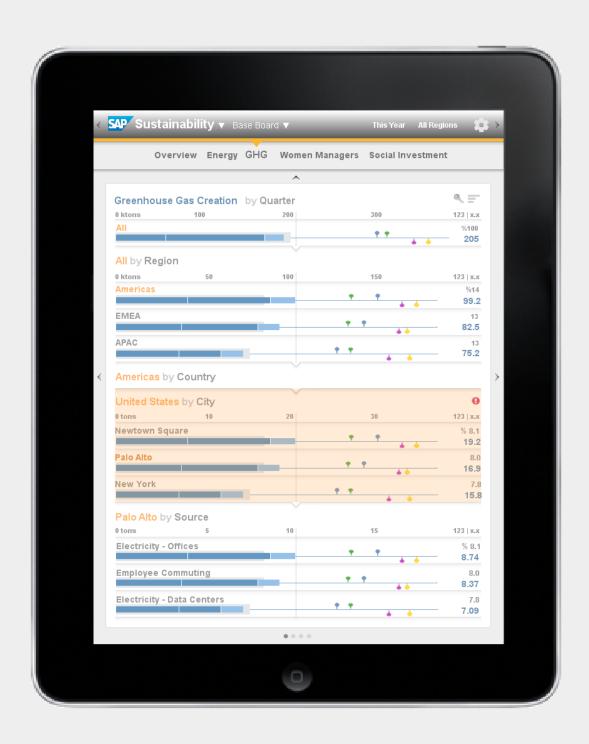


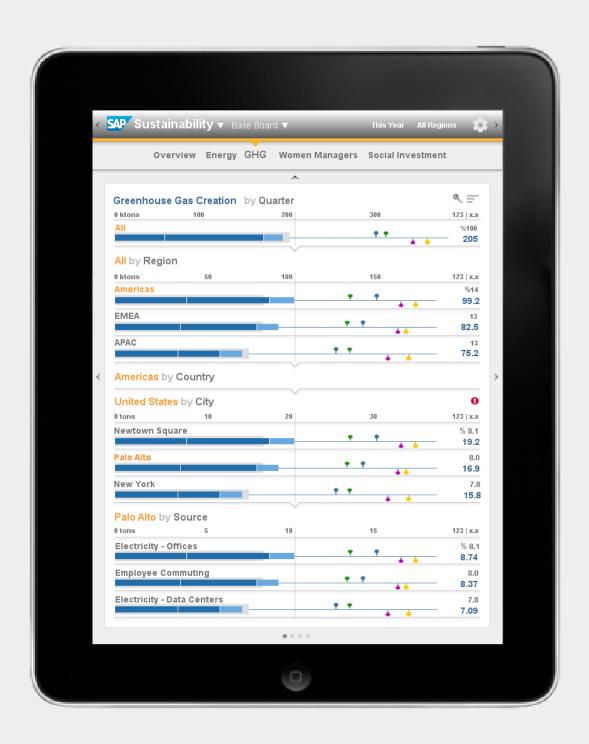


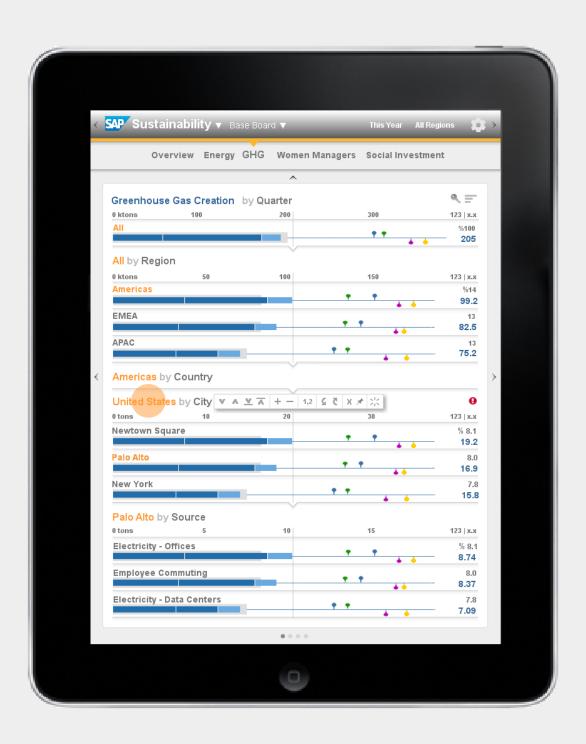


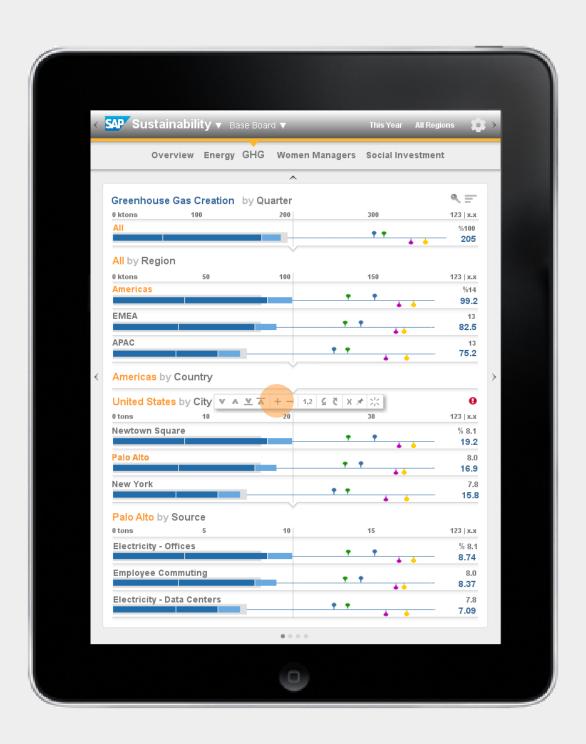


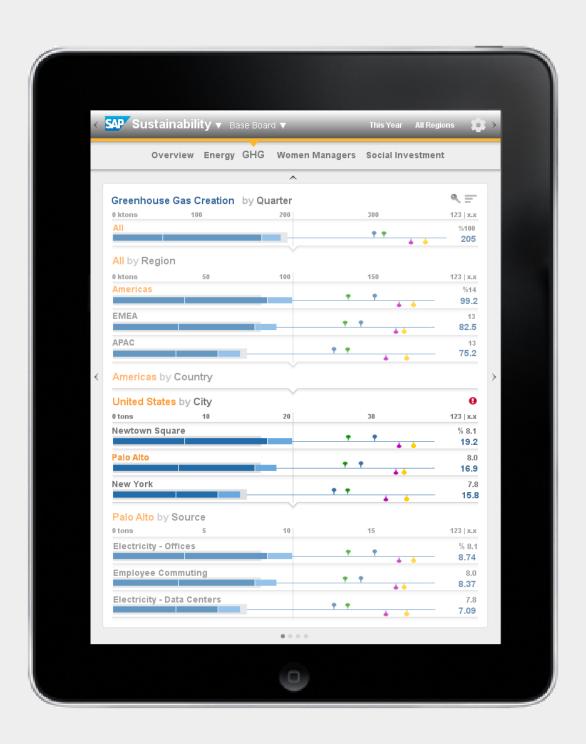


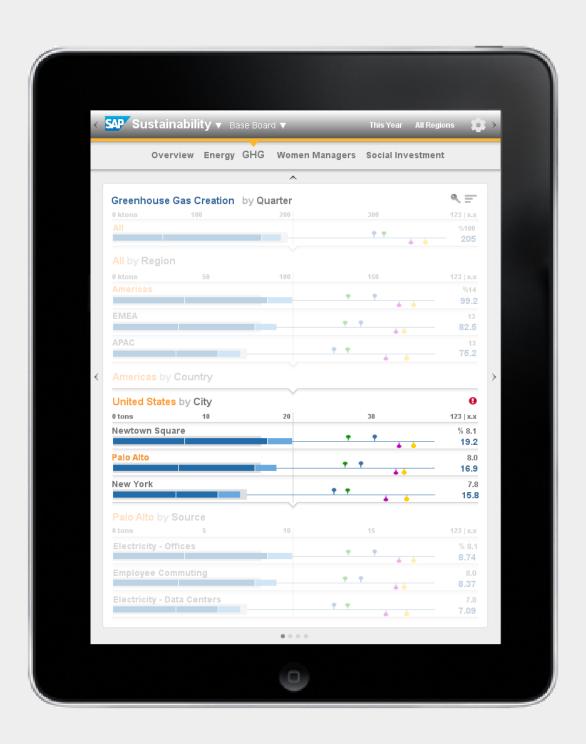


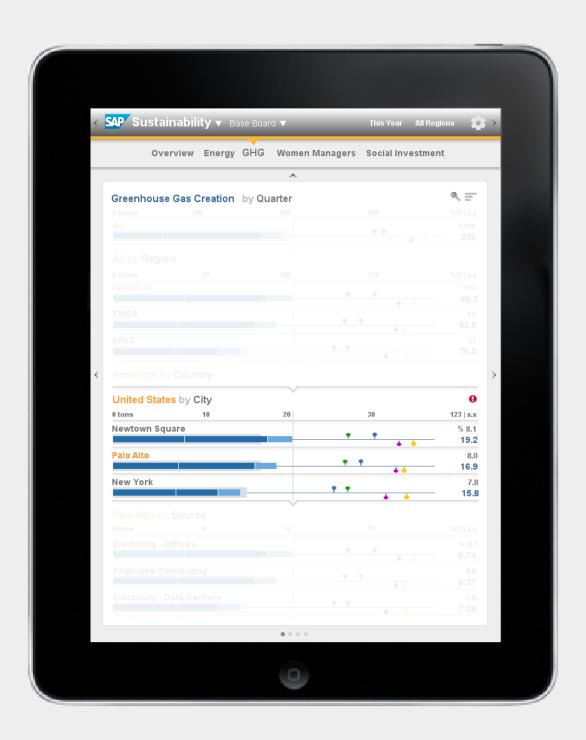


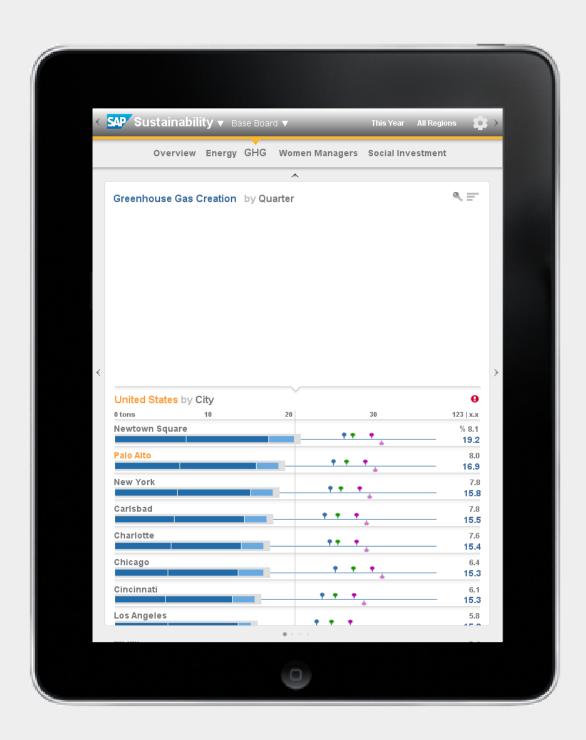


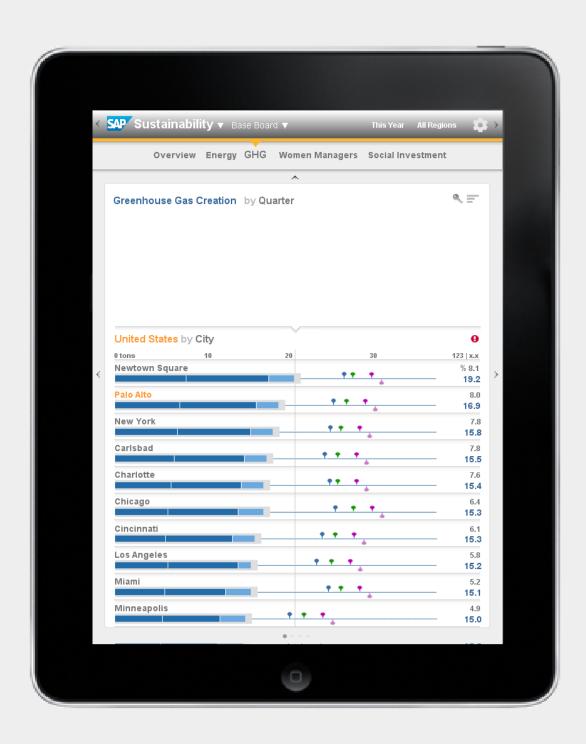


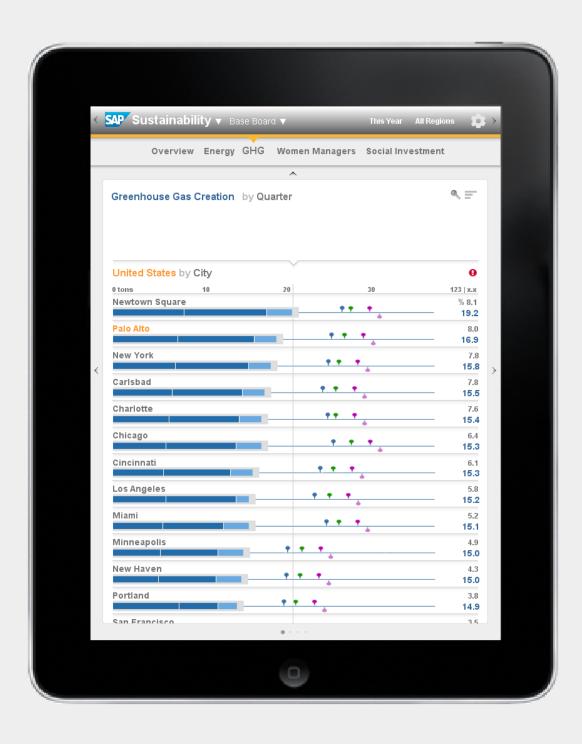




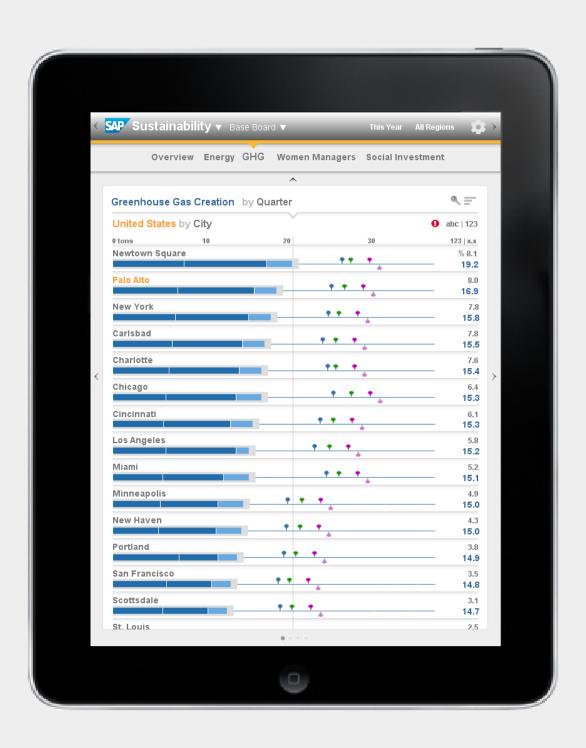


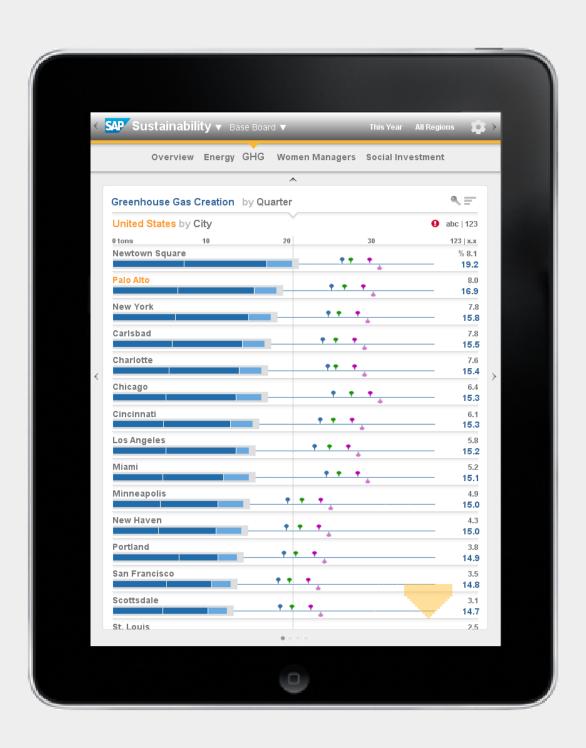


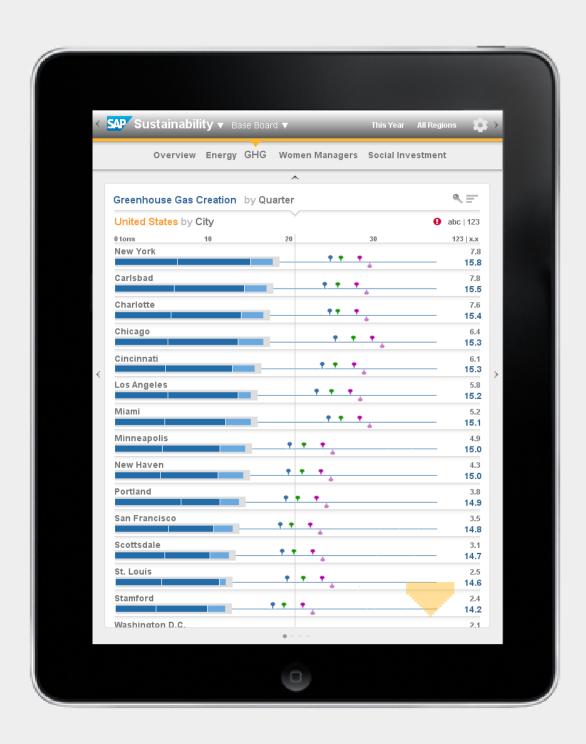


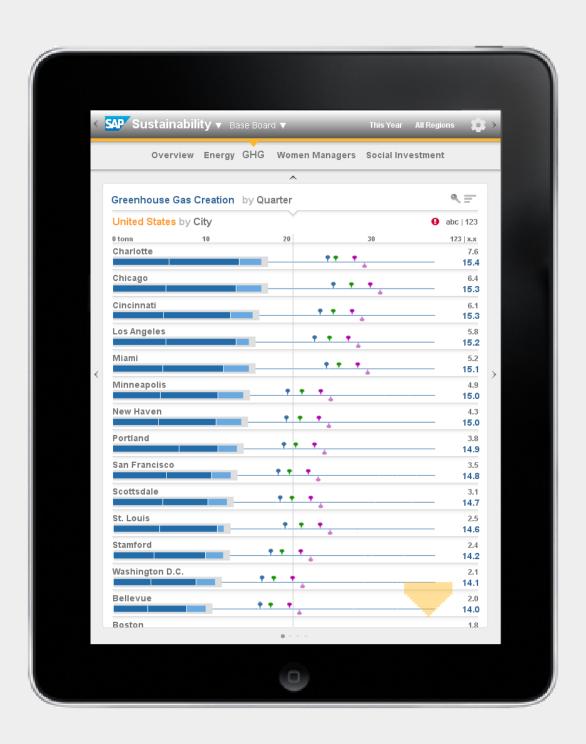


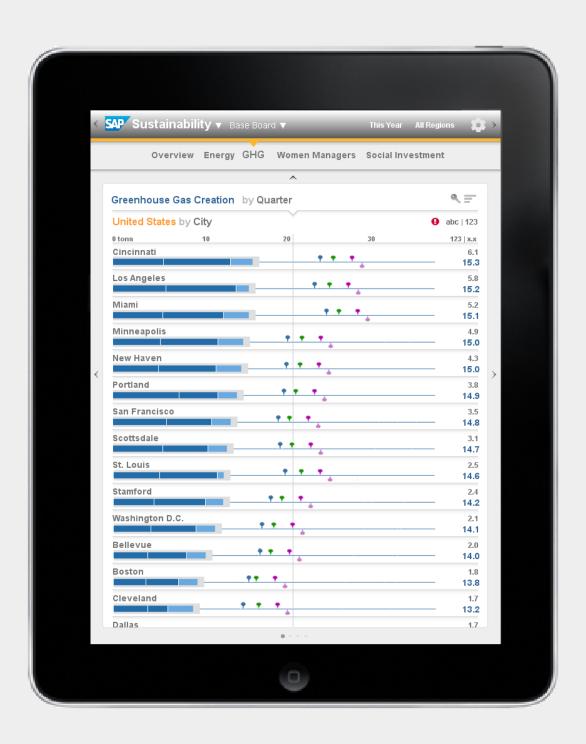
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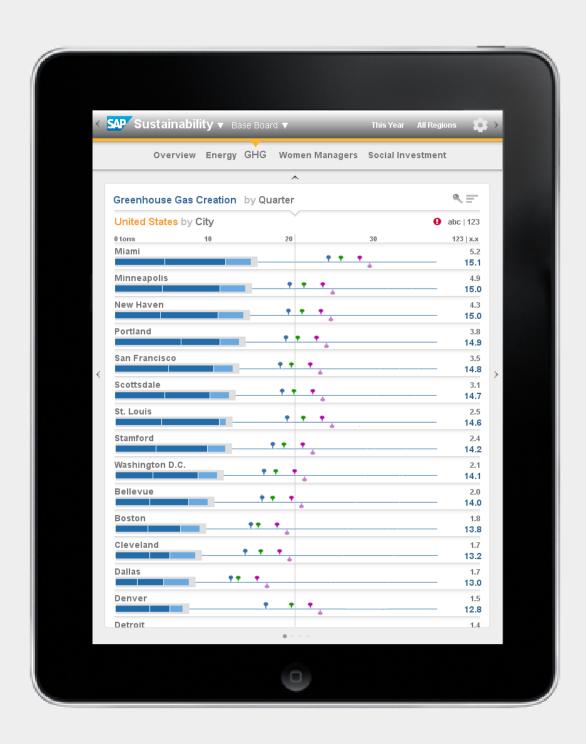


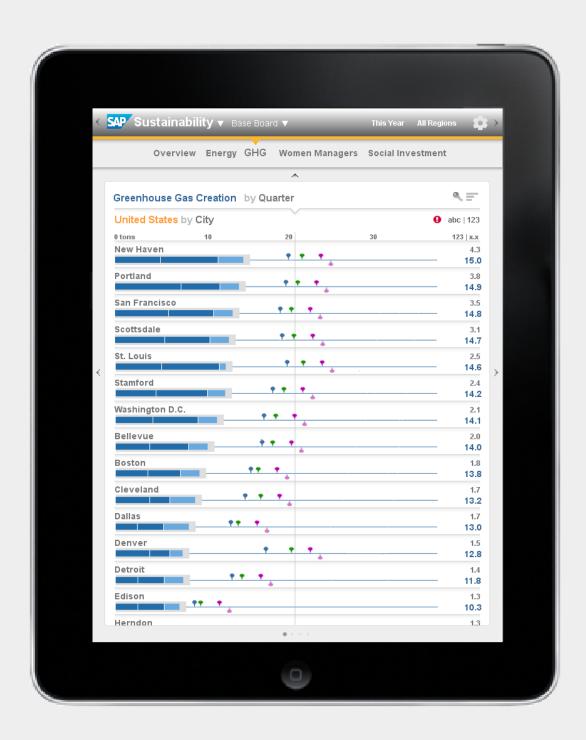


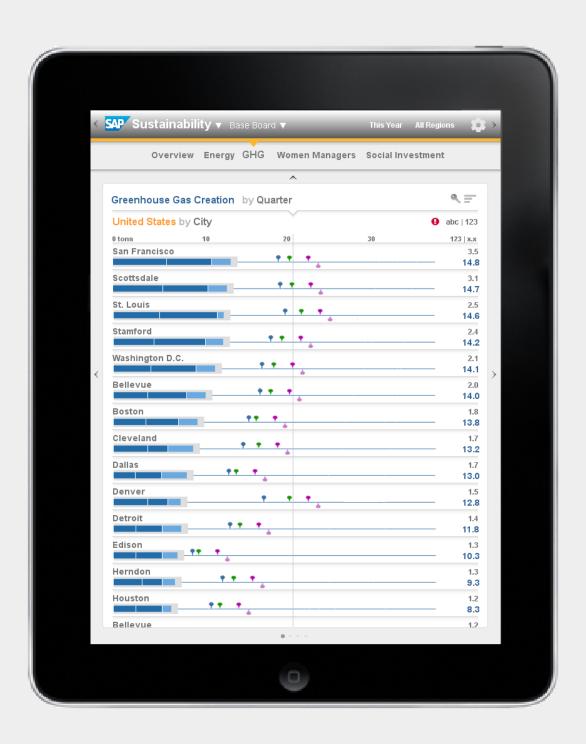


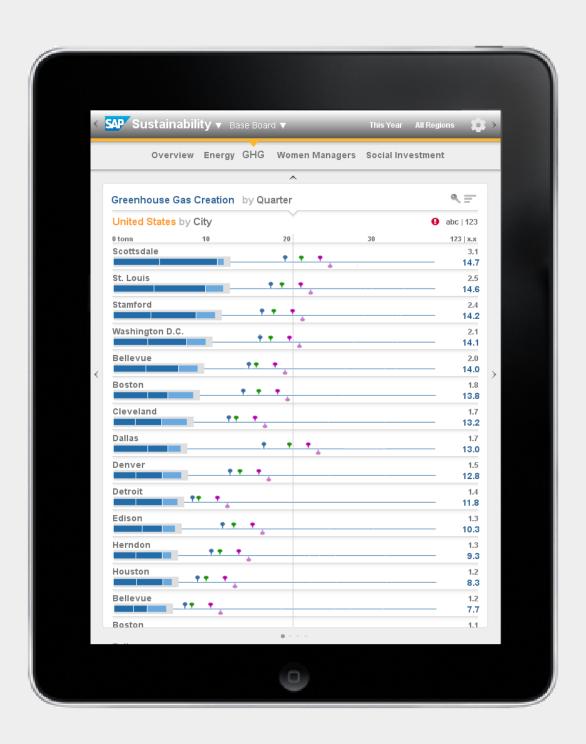


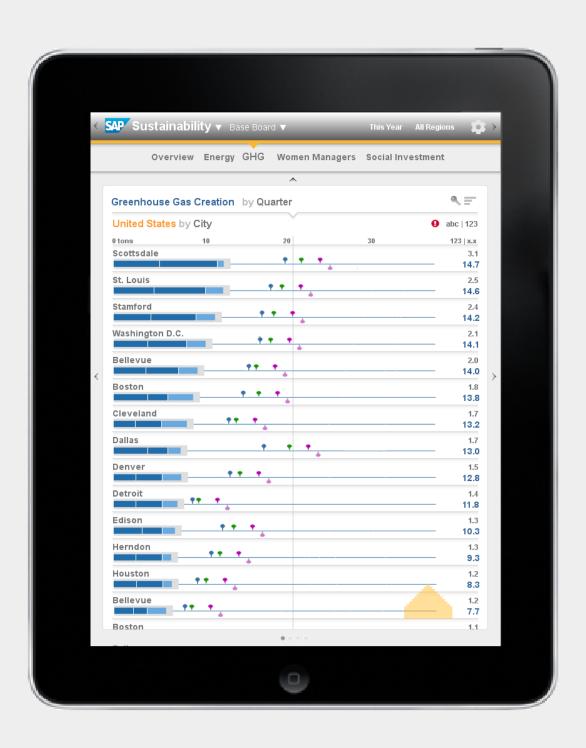


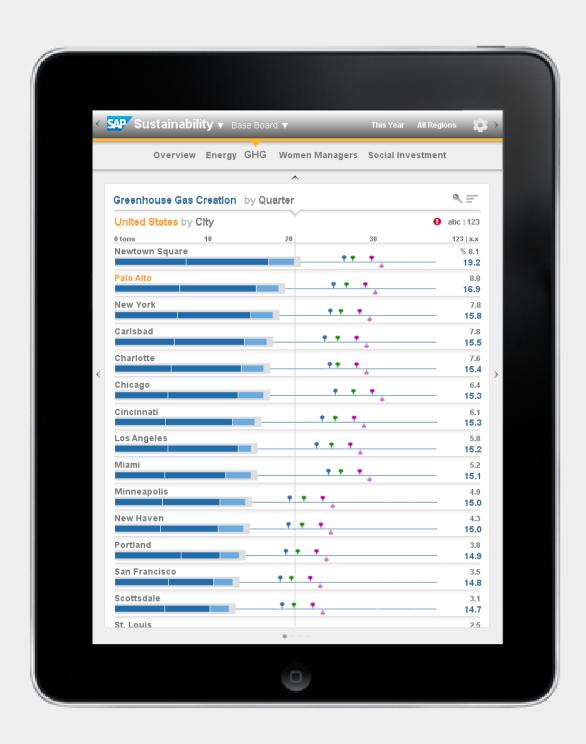








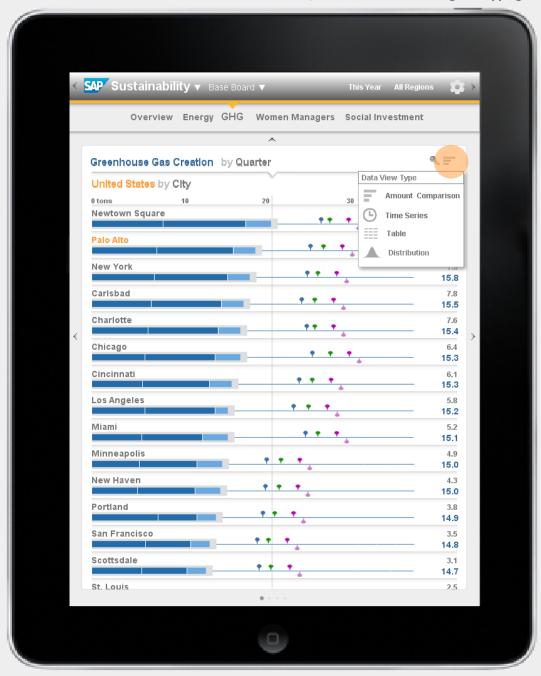




# **Changing View Types**

The top level Lattice display uses bars to show data plotted along a one- dimensional axis. While this is ideal for the common use cases of showing relative size and proportional subdivisions, alternative view types are also possible.

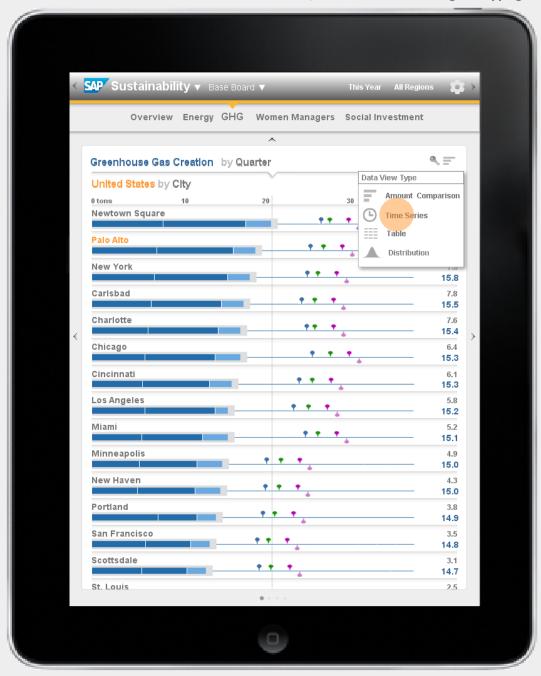
Here is shown how the GHG data for cities can be shown changing as a trend over time. For this, the Lattice uses a specialized heat map called a Keyline. Keylines display red or green in varying darkness to show a measure being higher or lower than a benchmark, such as a goal, a previous value, or even a rate of climbing or dropping.



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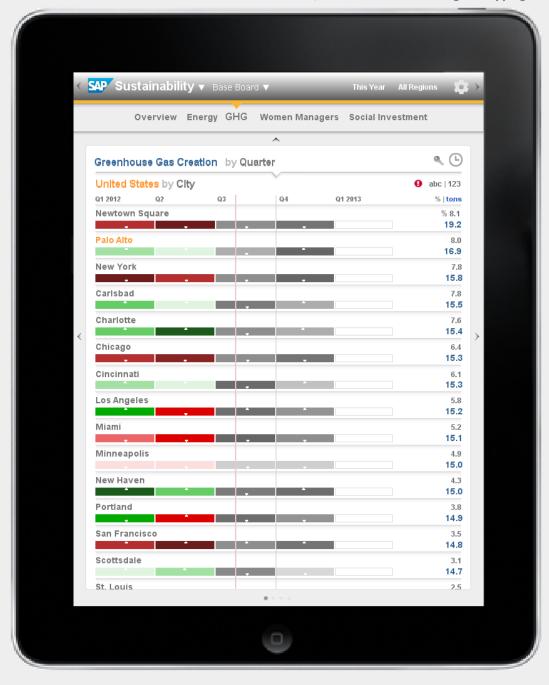
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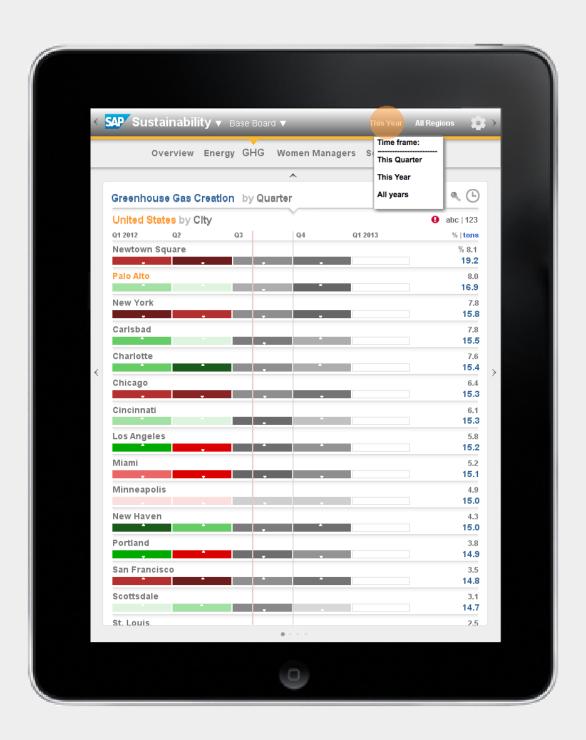


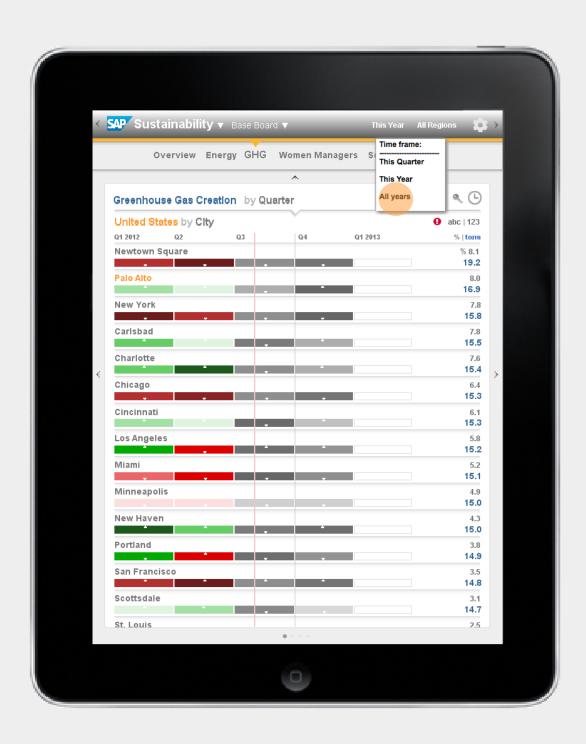
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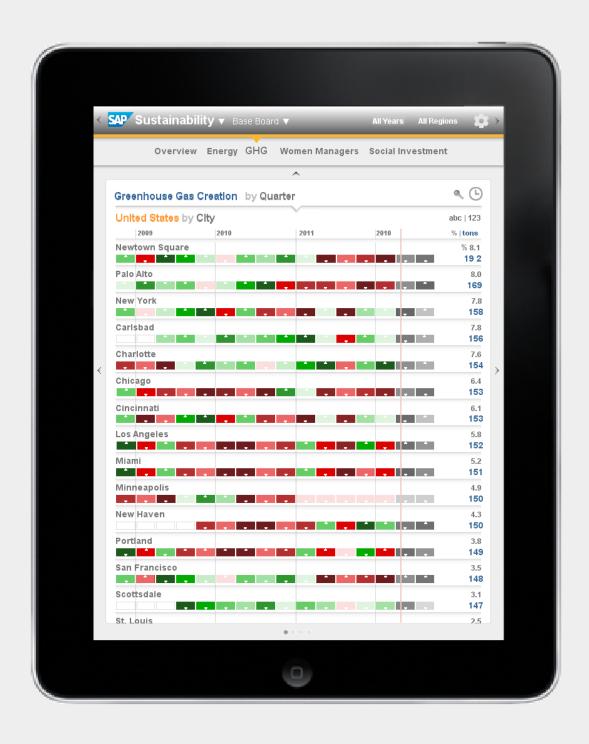




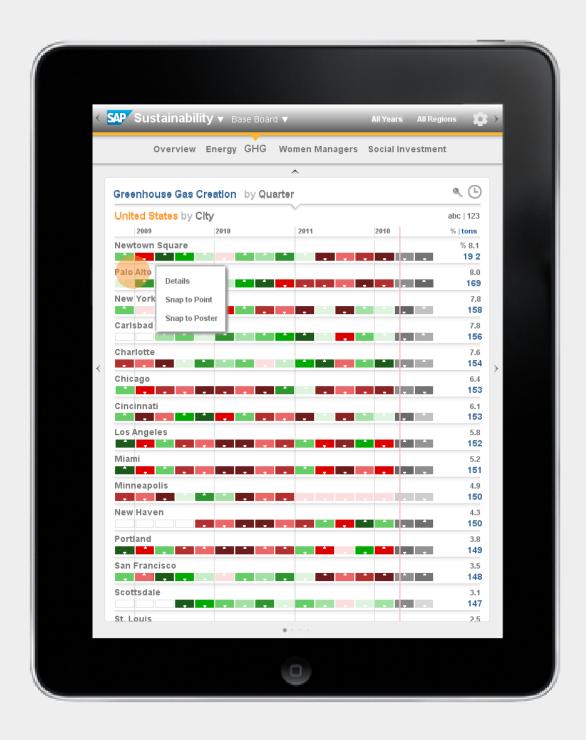
## A Mosaic of Historical Data

Keylines are effective for comparing trend data for many values over long periods in order to see patterns.

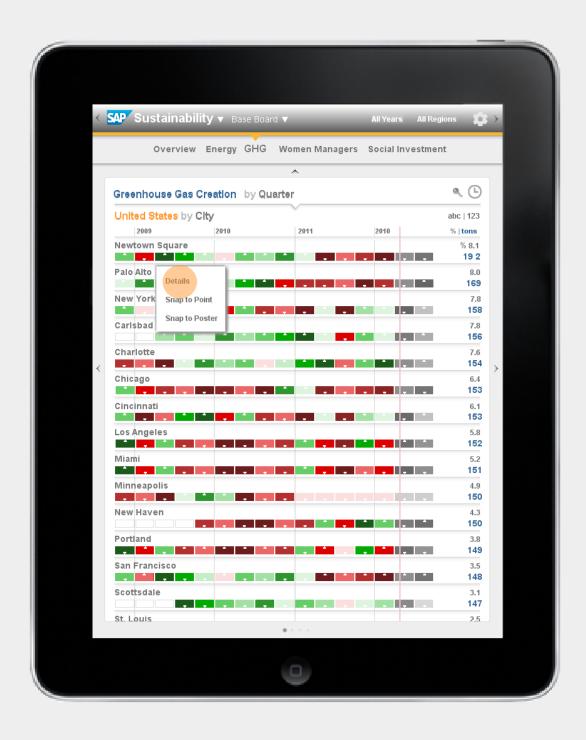
Here, Portland has been mostly under the benchmark, while Carlsbad and Scottsdale have been over since being introduced in 2009. In Q3 2011, all Cities were under, while Q1 was almost the opposite.



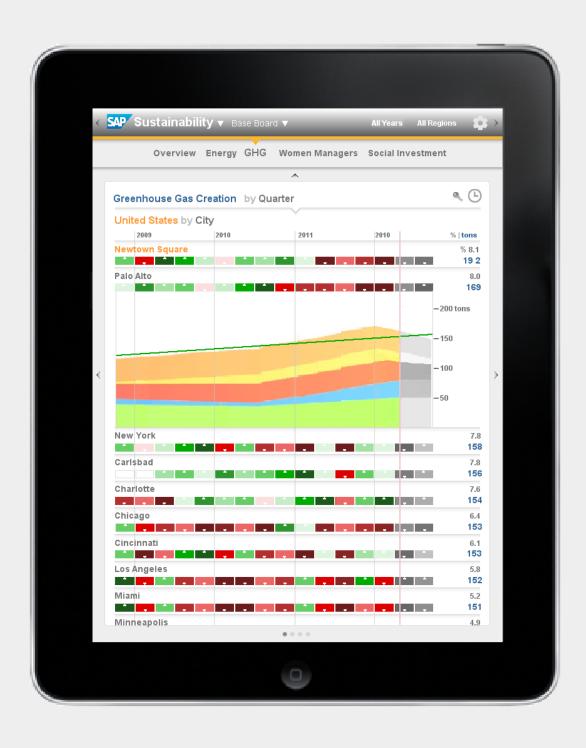
Smaller numbers of Values are best shown varying over time with line charts. Keylines can be unfolded to show this display type.



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