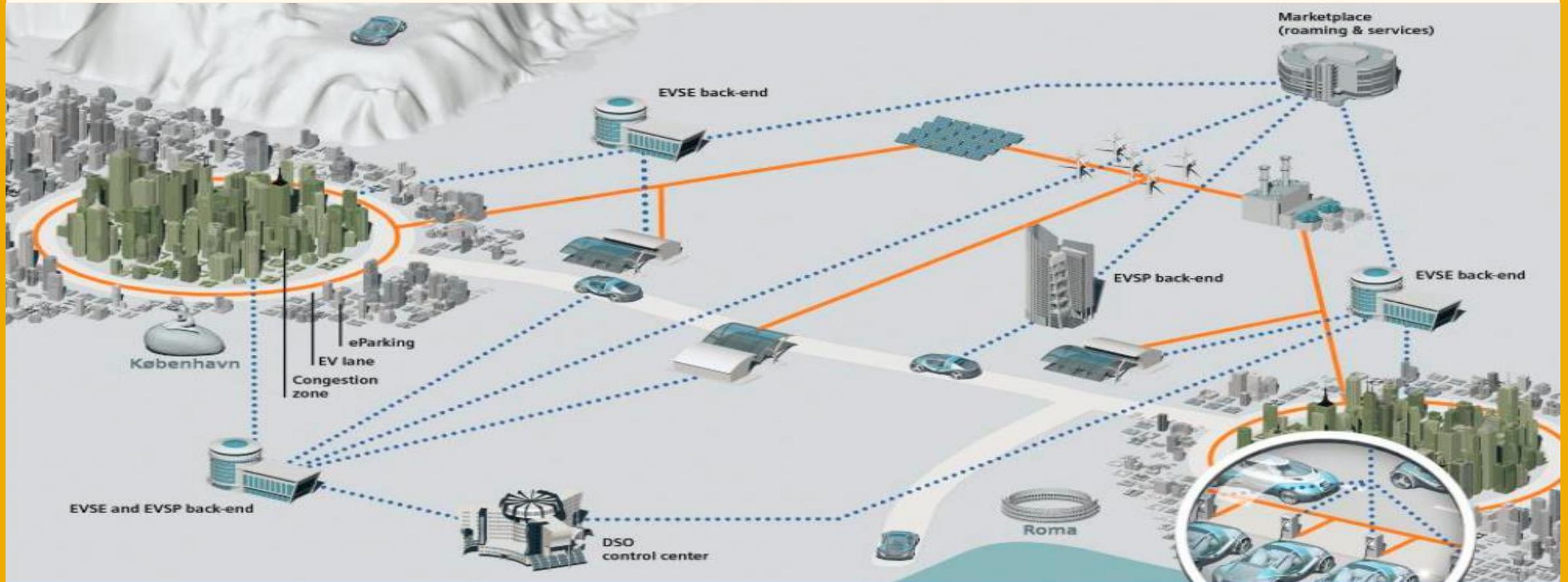


Cloud-Based Market Places for Mobility Services

Workshop 2: Green Cities

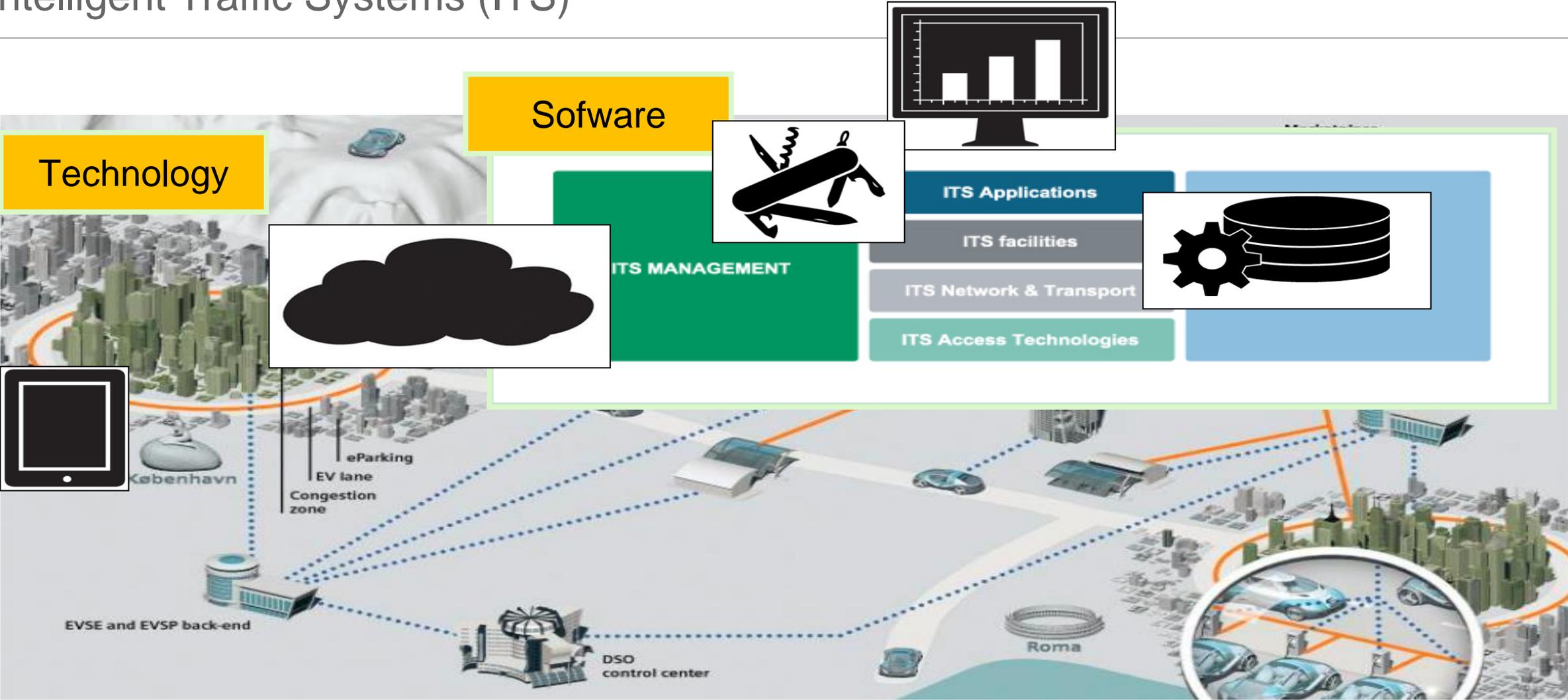
Rainer Uhle, SAP AG

International NoAE-Project-Day for E-Mobility, Aachen 12. Juni 2013



What's in it for SAP?

Intelligent Traffic Systems (ITS)



Some Background Information



Mobility Services Apps

My Mobility Services Apps



Reservation



Using EV



Route Planning



Charging Station



Car Parks



Driving Condition



Fault Report



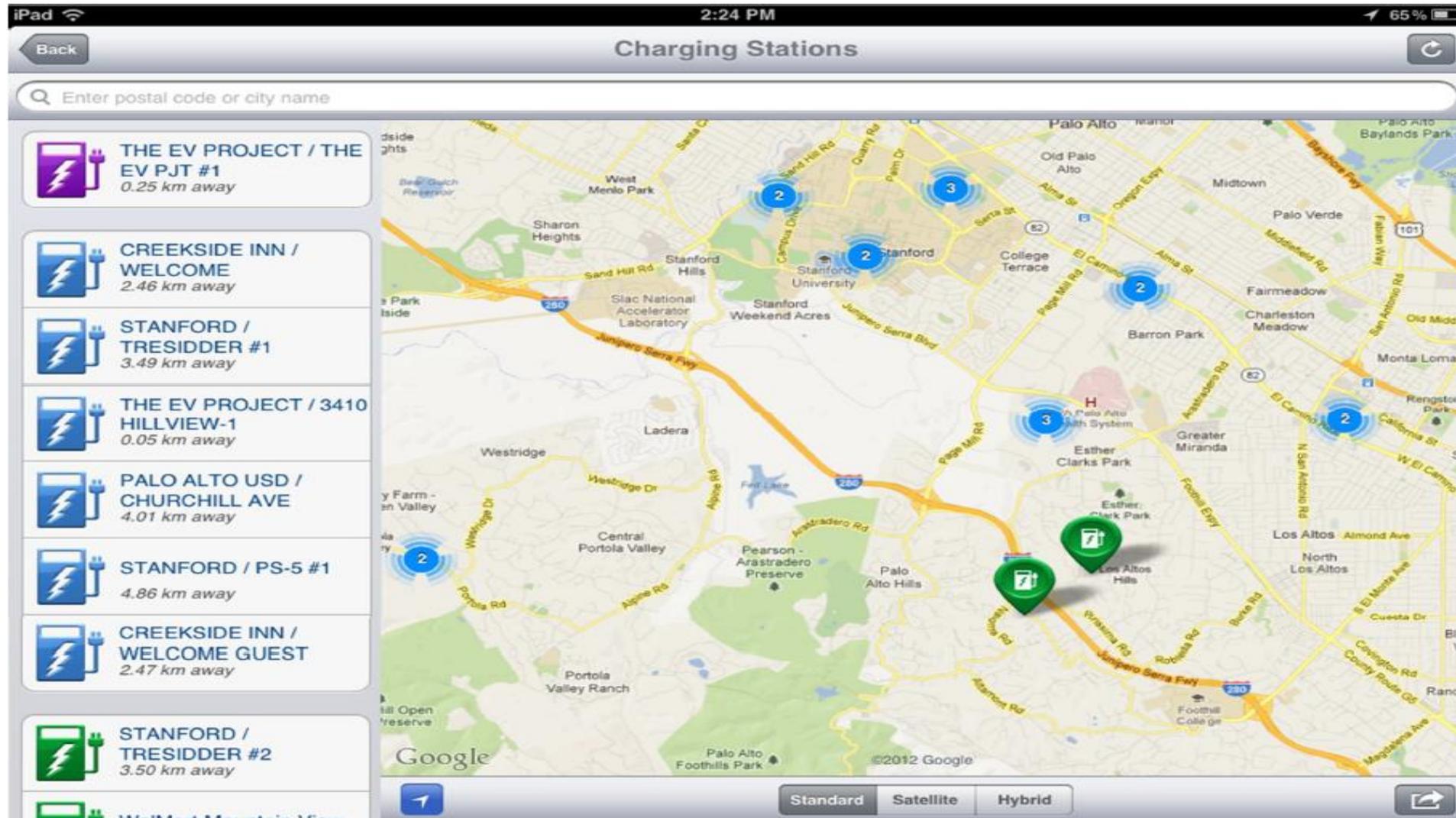
Leaderboard



Analytics

<more>

Real-Time System Proposal for My Trip According to My Needs



Charge Spot Management - Details und Reservation Options

iPad 2:20 PM 66%

Charging Stations Charge Station Details

Name THE EV PROJECT / 3410 HILLVIEW-1

Address 3410 Hillview Ave, 94304, Palo Alto, California, United States

Status InUse

Company ChargePoint

ChargePoint

Current Reservations New Reservation

Map showing location in Palo Alto, California, near Stanford Weekend Acres and Palo Alto Health System.

Charge Spot Management - Reservation Procedure

The screenshot shows the ChargePoint mobile application interface on an iPad. At the top, the status bar displays 'iPad', signal strength, '2:20 PM', and '66%' battery. Below the status bar, there is a navigation bar with 'Charging Stations' on the left and 'Charge Station Details' in the center. The main content area displays the following information:

- Name:** THE EV PROJECT / 3410 HILLVIEW-1
- Address:** 3410 Hillview Ave, 94304, Palo Alto, California, United States
- Status:** InUse
- Company:** ChargePoint

A 'chargepoint' logo is visible on the left side of the details section. A location pin icon is next to the address. Below the details, a 'Select Duration' dialog box is open, showing a reservation for Thursday, Nov 15, from 02:23 PM to 03:20 PM. The dialog contains two date pickers with the following options:

Day	Month	Year	Hour	Minute	Period
Tue	Nov	13	12	21	
Wed	Nov	14	1	22	AM
Today			2	23	PM
Fri	Nov	16	3	24	
Sat	Nov	17	4	25	

to

Day	Month	Year	Hour	Minute	Period
Tue	Nov	13	1	18	
Wed	Nov	14	2	19	AM
Today			3	20	PM
Fri	Nov	16	4	21	
Sat	Nov	17	5	22	

Below the date pickers is a 'Reserve' button. The background of the app shows a map of Palo Alto, California, with labels for 'Central Portola Valley', 'Pearson - Arastradero Preserve', 'Palo Alto Hills', 'Los Altos', 'Almond Ave', 'North Los Altos', and 'Mountain View'.

Charge Spot Management - Reservation Details



Analytics Dashboard



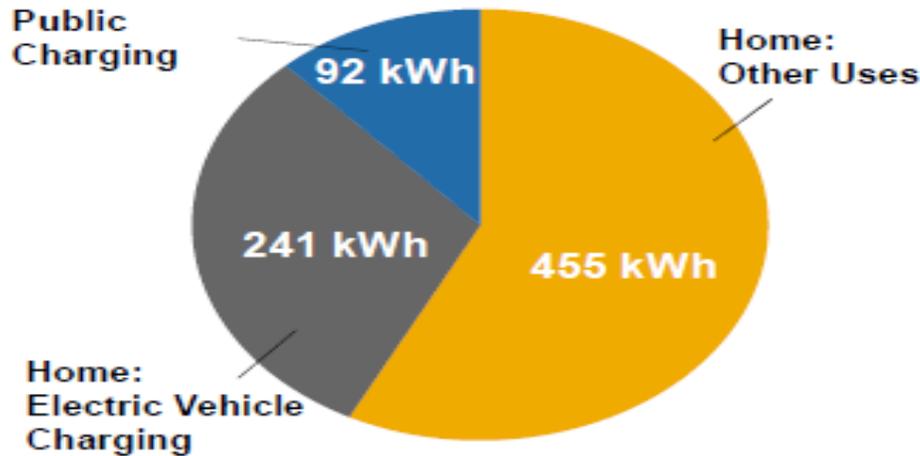
Billing Example for Electrical Energy Consumption

Mr. Michael Smith
37 Main St.
Redwood City, CA 94062

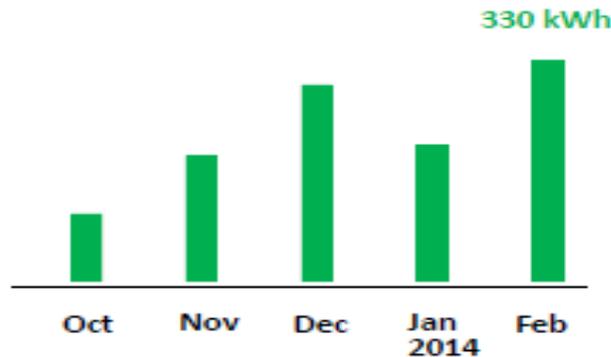
Billing Period: 02-01-2014 – 02-28-2014

Electricity for Vehicle Use: **332.39 kWh**
Cost of Electricity for Vehicle Use: \$64.79

Monthly Usage by Category

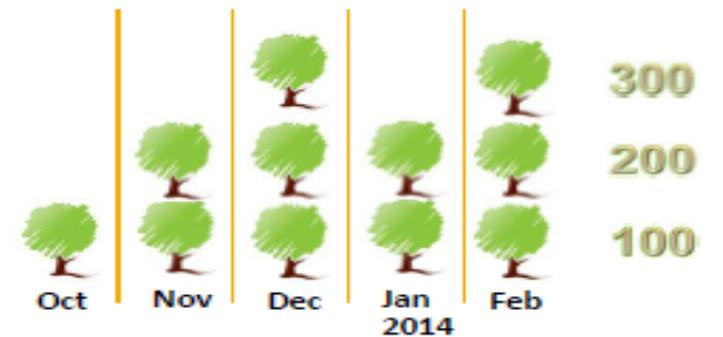


Electricity Used for Vehicles



GHG Emissions Avoided, kg

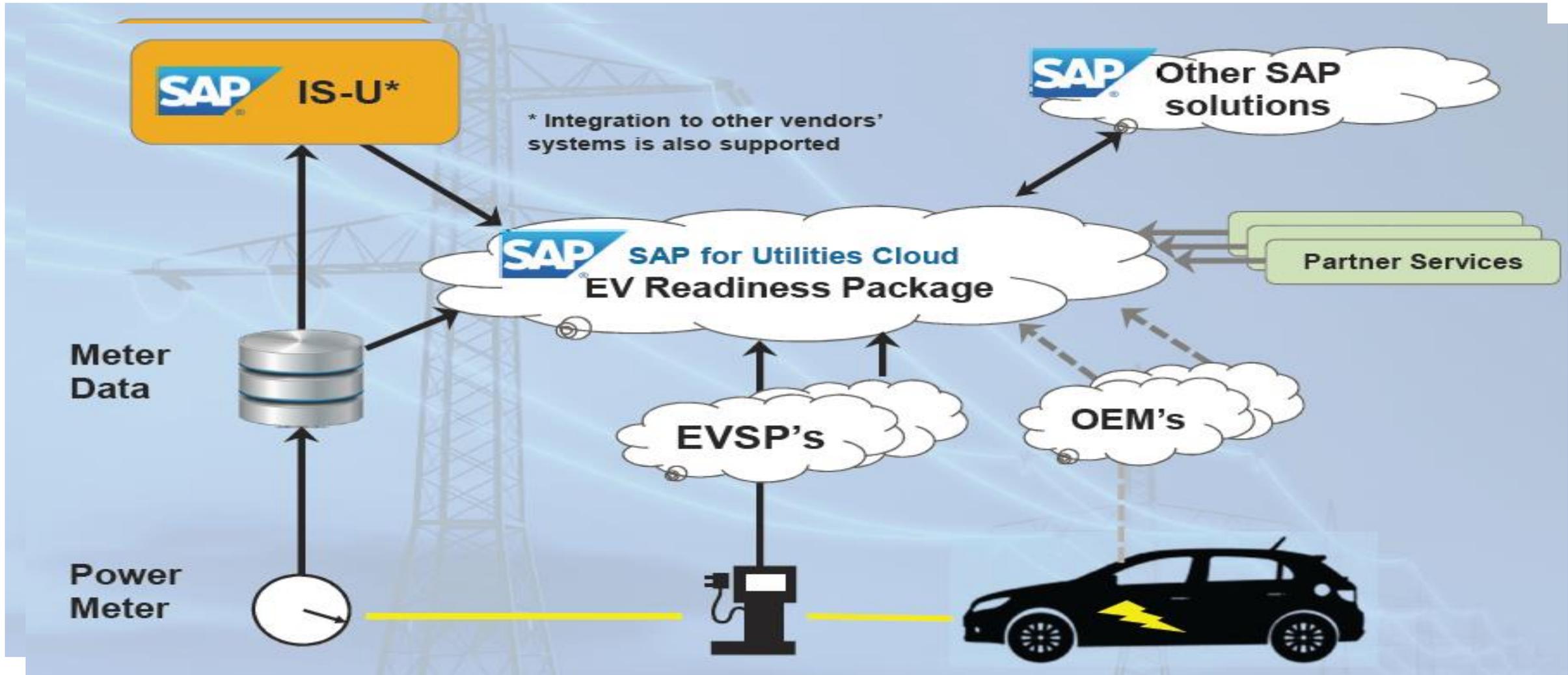
293



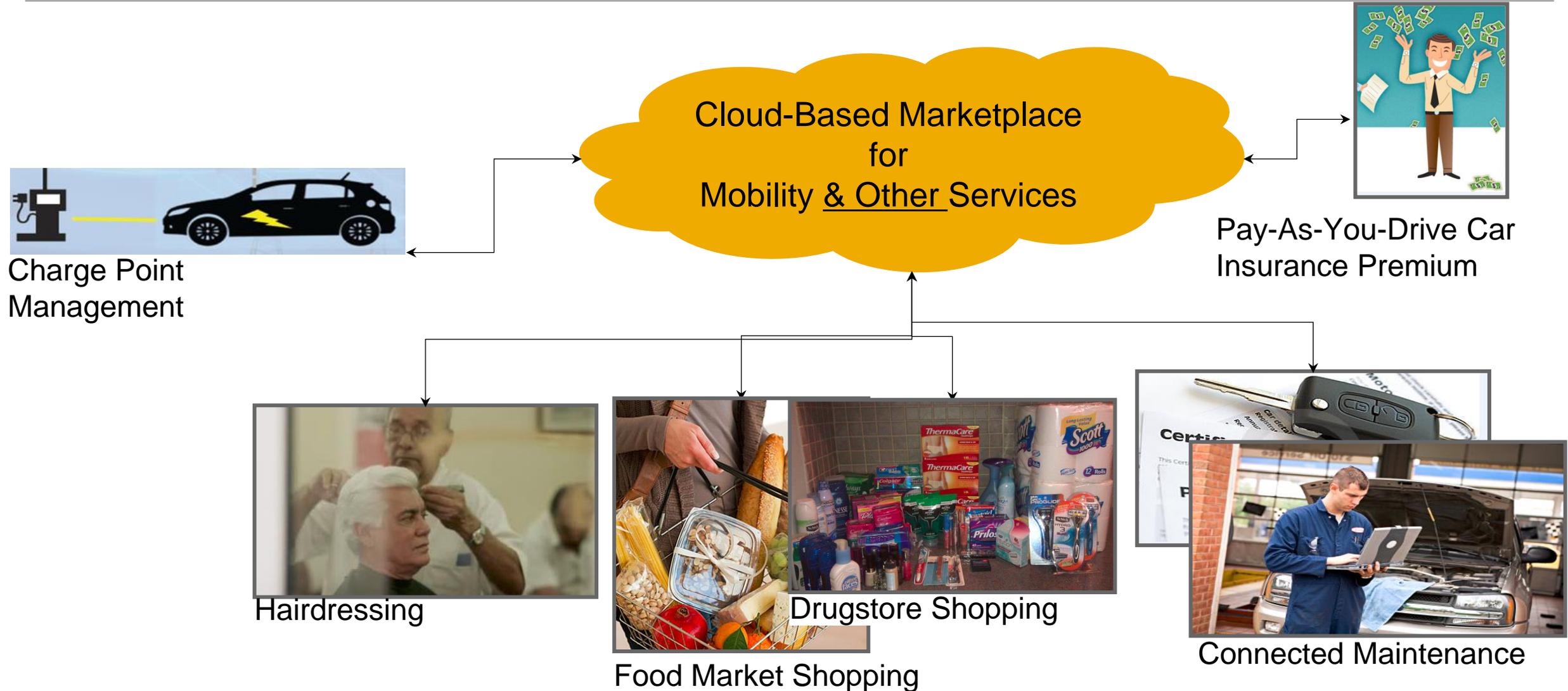
Gallons of gasoline saved in February



Mobility Services Marketplace (MSM) – There is space for more ...



Connected Mobility – Connected Me



Questions to the audience

What kind of services are you providing for a scenario like this?

Product Maturity (Product, Prototype, Concept, Idea, Vision)

Client or Platform-Based, Migration Options

Compliance, Certification, Industry

Costs, License Model (User-, Volumebased)

Questions of ownership (Data, Data Analysis, Information Trading)

...

What do you think with regard to:

Technical Implementation

Public Regulations, Legal Aspects and Prerequisites

Security, Ownership of the data, Privacy

Role of Government and Public Authorities

...