

Feb 6, 2012

**KKE signs a cooperation agreement with PTV AG, a leading software company in Germany, to distribute transportation planning and traffic simulation software in Japan**

**~Traffic simulation to evaluate people's mobility behavior ~**

Kozo Keikaku Engineering (Head office: Nakano-ku, Tokyo, President&CEO: Shota Hattori, "KKE" hereafter) signed a cooperation agreement with PTV AG (Head office: Karlsruhe, Germany, CEO: Vincent Kobesen), a leading software company for transportation planning and traffic simulation software, on February 1. In addition to PTV Vision Support Center Japan, who's been active in the market since 2005, KKE shall distribute the software suite "PTV Vision" and provide technical support in Japan. The two companies will jointly target the market.

PTV's traffic software is used in projects of various sizes – from large-scale to detailed studies. Customers in more than 100 countries worldwide have chosen PTV's software solutions for smart city development, traffic flow simulation and evaluation.

KKE will distribute "PTV Vision" products in Japan, which consist of "VISUM" and "VISSIM". VISUM is a comprehensive, flexible software system for transportation planning, travel demand modeling and network data management that can be used on all continents for metropolitan, regional, statewide and national planning applications. "VISSIM" is a microscopic simulation program for multi-modal traffic flow modeling, which accurately simulates urban and highway traffic, including cyclists, motorized vehicles and pedestrians. With PTV Vision products, KKE can provide a total solution that covers urban development and transportation planning (e.g. detailed traffic junction simulation) as well as pedestrian flow simulation in stations or public facilities.



VISSIM: Pedestrian simulation inside a station

Here are a few examples of major projects using PTV Vision software;

- Urban transportation planning in Dubai:  
Dubai is experiencing rapid development in terms of demographics, economy and implementation of new area. PTV developed the models based on scenarios, impact analysis, the system analysis and the support of public transportation planning.
- Beijing Olympic Park Strategic Model:  
PTV refined an existing transportation model with VISUM, creation of an activity-oriented VISEM demand model, detailed network model of the Olympic Green area, and estimated demand matrices for each hour of the days during the Olympic Games 2008.
- North Melbourne Station, Pedestrian Simulation Planning and Design:  
North Melbourne Station has four rail lines that converge on this station on route to the Central Business District, with a variety of service destinations, rolling stock, schedules and service occupancy and the number of doors for passenger boarding and alighting. PTV developed the pedestrian transfers and the rail schedules, including rolling stock, variation in interchange between platforms and consideration of boarding and alighting times.

Adding PTV Vision software to KKE's existing solutions such as disaster response solutions and evacuation simulation, disaster risk management, logistics planning optimization, wireless network simulations etc., KKE is confident it can contribute to build a better society by providing comprehensive social simulation tools.

After the earthquake and tsunami on March 11, 2011, there are still many people who are staying at temporary housing accommodations. There is an urgent need to immediately redevelop the affected areas.

Apart from the devastated areas, metropolitan areas also experienced serious problems due to public transportation being out of service on that particular day. Recent research suggests that the probability of an epicentral earthquake hitting Tokyo within 4 years is as high as 70%. Earthquake probabilities for Tokai and Tonankai are similar. Therefore, the society has to develop appropriate measures throughout Japan. KKE is confident that they can provide the society with useful services by leveraging all of their technologies.

By combining PTV transportation planning software and KKE's experience and expertise the following applications can be efficiently supported:

- Examination of a new urban transport plan toward the recovery and redevelopment of the disaster stricken areas.
- Traffic planning for disaster areas in Tohoku
- Emergency evacuation planning(evacuation spot and route), evacuation simulation in a high-rise building/station
- Sustainability evaluation of transport policies such as “park and ride” and road pricing
- ITS simulation/evaluation with wireless network simulation and traffic simulation
- Impact analysis of newly-introduced motilities, and designing its lanes
- Optimization of train diagram/scheduling in accordance with congestions/delays/recovery simulation
- Smart city planning with layout/distribution of EV filling infrastructure, CO2 emissions, energy consumption
- Pedestrian flow planning and forecast, parking planning, traffic planning of a large facility (shopping center, station, etc.)

For more information about PTV products visit <http://www.kke.co.jp/ptv-vision/>

Commemorating the business agreement, KKE will hold the following launch seminar regarding mobility management and social design.

## **“Designing a city of the future with mobility simulations**

### **~ Scientific approaches to solve complex traffic phenomena and city environment~”**

Date: 13:00-18:00 Thu, Feb.23

Venue: Hall D 7, Tokyo International Forum

HP: <https://kke.smartseminar.jp/public/seminar/view/538>

Also, PTV traffic simulation software will be presented at the following event.

## **“KKE Vision Nagoya ~Smart cities and motilities of the future”**

Date: 13:30-17:45 Tue, Feb 21<sup>st</sup>

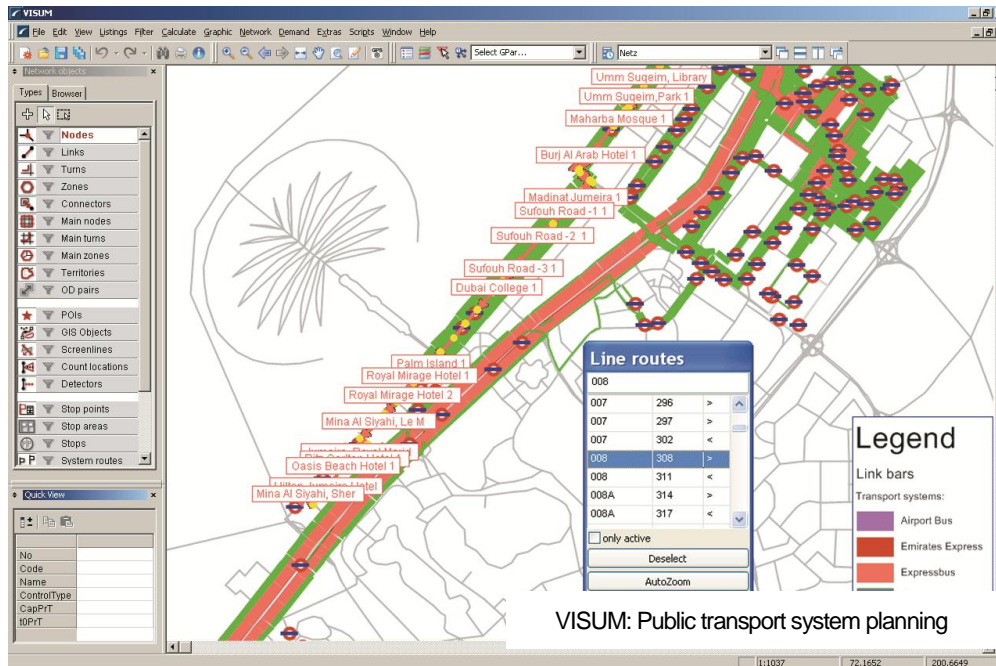
Venue: Nagoya Kanko Hotel

HP: <http://kkevision.kke.co.jp/kvn2012/>

■ About PTV products

“VISUM”

VISUM has a multi-mode choice function: PrT and PuT, and its combination. VISUM enables planners to develop detailed activity oriented demand models (for instance, home -> work -> shopping -> home etc.). With VISEM users can implement cutting-edge assignment algorithms. It supports public transit planning, optimizes time schedules and stop locations.



“VISSIM”

VISSIM is the leading microscopic simulation program for multi-modal traffic flow modeling. With its unique high level of detail it accurately simulates urban and highway traffic, including cyclists, motorized vehicles and pedestrians. VISSIM is the ideal tool for transportation professionals who want to simulate different traffic scenarios before starting implementation. It thus allows them to find a solution which takes traffic and transportation quality, safety and cost into consideration. It has a sophisticated 3D animation function and can calculate CO2 emission with the add-on EnVIVER.



## ■ About KKE

KKE is an engineering design firm established in 1959. Starting its business as a structural firm, KKE has developed the line of business in structural design and analysis, engineering consulting and system development for construction, tele-com, and manufacturing industries. The business pillars also include simulation and analysis of human decision making, quantitative measurement of human/commodity flow, and disaster readiness services including quake-resistant engineering, risk assessment, analyses on facility damage and business continuity, etc. Details: <http://www.kke.co.jp>

## ■ About PTV AG

The PTV Group provides cutting-edge software technology and consulting to enable customers to meet their mobility needs. It helps people plan and manage traffic and transportation, provides them with the latest traffic reports and assists them in optimizing their long-term resource allocation. Since 1979, the independent corporate group has been a leading provider of products and solutions for travel, traffic and transportation planning. Details: <http://www.ptvag.com>

## ■ Contact information

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