



SUZUKI, T. LAB.

* Developing in Goto islands, Nagasaki



[Nagasaki EV&ITS Project]

Advanced Mobility Research Center (ITS center)

<http://robotics.iis.u-tokyo.ac.jp> / <http://www.pref.nagasaki.jp/ev/ev&its/>

Robotics

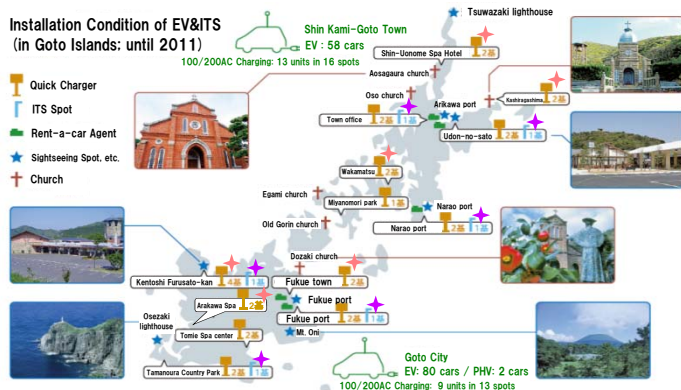
Nagasaki EV&ITS Project

“Nagasaki EV&ITS Project” is establishing eco-friendly smart tourism system using Electric Vehicles (EV) and ITS technologies. It is promoted in Goto islands in Nagasaki prefecture, aiming to be registered as a World Heritage site.

In 2011, in addition to expansion with 140 EVs&PHVs, 27 quick chargers on 13 sites and normal chargers at hotels and inns, ITS spots will be introduced to 6 sites and start new services in this year. To provide such services, the integrated tourism information platform, which collects various local information and provides to various media and devices, is now developed. Also, so-called “meta-standardization” of communication protocol of various electric supply and demand elements, which enables utilization of local energy resources and local smart grid, is proposed.

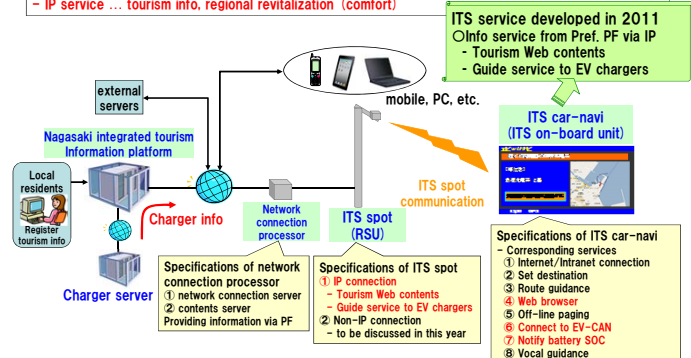
These systems are considered to be widely used not only for tourism but also even in emergent situation, and disaster prevention and evacuation services are now considered.

EVs and PHVs are mainly introduced for rent-cars and taxis and collect amount of driving data of general users. Quick chargers and ITS spots are determined their locations at sightseeing spots, considering spatial distribution and how to spend charging time. 100/200V AC chargers are installed at hotels and inns, considering charging at night.

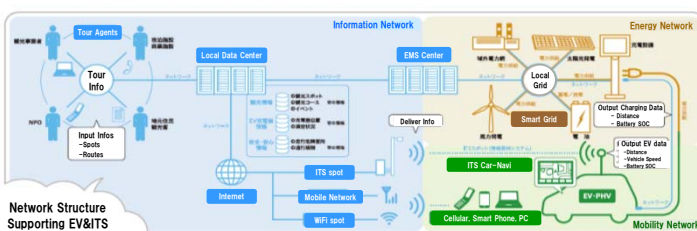


Network connection to integrated tourism information platform via ITS spot

Nation-wide ITS infrastructure & service ... high spec, complicated, expensive
 ⇒ Regional ITS Infra & service ... Simple & Low cost with minimal installation with regional requirement
 - Non-IP service ... reduce accidents (safe), prevent congestion (smart), EMV accounts (convenient)
 - IP service ... tourism info, regional revitalization (comfort)



Next-Generation EV Society Model proposed from Islands to the world !



Nagasaki EV&ITS proposes a change of social system from conventional city-centered one to new regionally distributed one. The model consists of an information network where fresh and precise information are distributed and operated by local residents, an energy network where the local natural green energy is principally produced and consumed within local grid, and a mobility network where local transportation is reformed starting from introduction of EV. The model should be a next-generation society model from region. To realize this model, it is important that each component must be reformed from vertically integrated one to horizontally distributed one. To do this, global standardization is greatly required.

Tourism services with local identity realized by ITS

