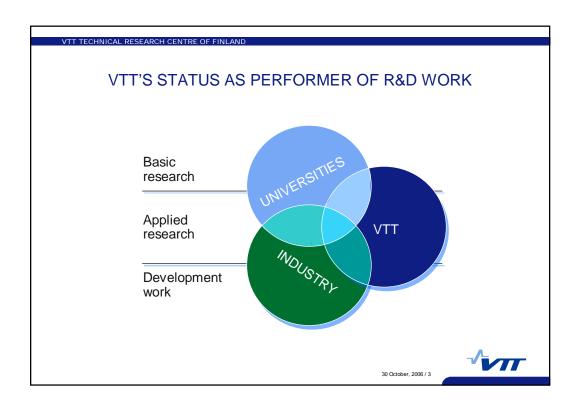


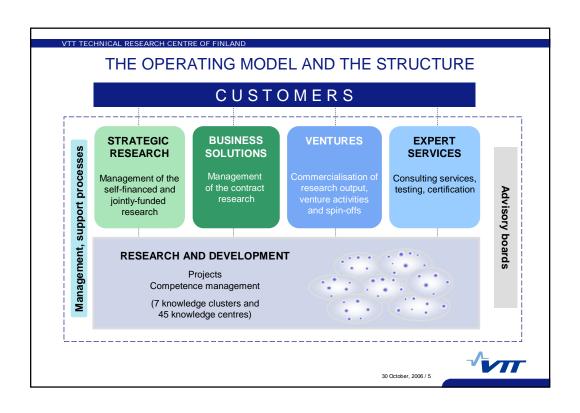
Content

- § VTT in Brief
- § Main Business Areas
- § VTT's Service Portfolio
- § Co-operation with VTT
- § VTT's Innovation Partnership
- § Case I: Transport, ICT & Telematics
- § Case II: Other Selected Examples

VIII







VTT'S SERVICE PORTFOLIO

- § Extensive R&D services for the most important stages of the customer's innovation process:
 - Strategic research and new business opportunities
 - Planning of new concepts to create new opportunities and innovations
 - Transfer of best know-how and practices and commercialisation in co-operation with the customer.
- § Integration of VTT and partner resources to meet customer needs.
- § Business Solutions: content, financing models and commercial applications.



√vπ

CO-OPERATION WITH VTT

- § VTT carries out three types of activities: commercial activities, joint projects and self-financed projects.
 - Commercial activities are performed according to direct demand from customers.
 - Joint projects are initiated on the basis of need and typically jointly funded by VTT, companies, research financers (*) and/or other research parties.
 - Self-financed research consists of technology-based strategic research projects aimed at developing competitiveness and acquiring knowledge and expertise to meet the future needs of customers. § TEKES (The National Technology Agency)
 - - § EU Programmes





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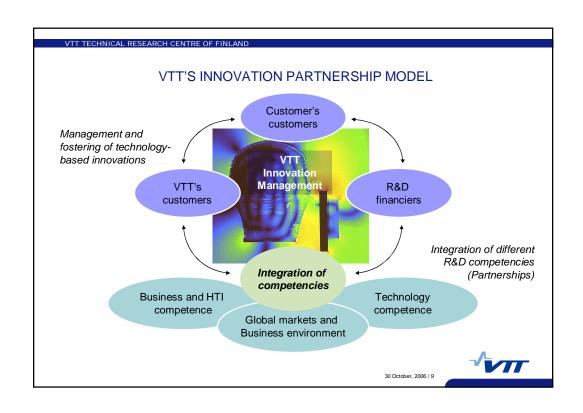
T TECHNICAL RESEARCH CENTRE OF FINLAND

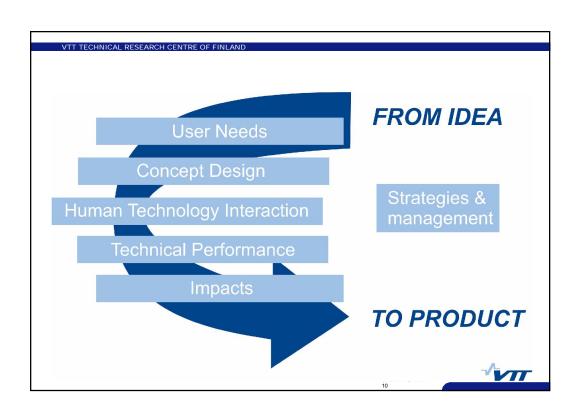
CONTRACT RESEARCH

- § All results of contract research are the customer's property.
- § A matter of essential importance in our contract R&D is commitment to strict confidentiality. We have no right to reveal the assignment nor the results to a third party without the written permission of the customer.
- § Contracts are processed by lawyers and include e.g. schedule, cost, payment, confidentiality, ownership, right of use, documents and test materials, rights and obligations of VTT/the customer, publication of results, VTT's liabilities, termination of contract
- § All details of the assingment are usually agreed upon in a separate commission contract and its annexes composed of VTT's general terms of contract and the project plan.

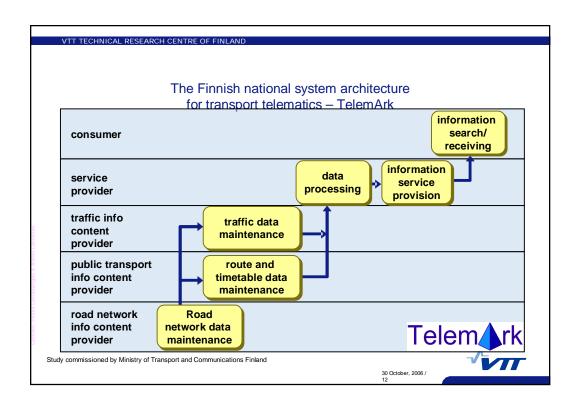




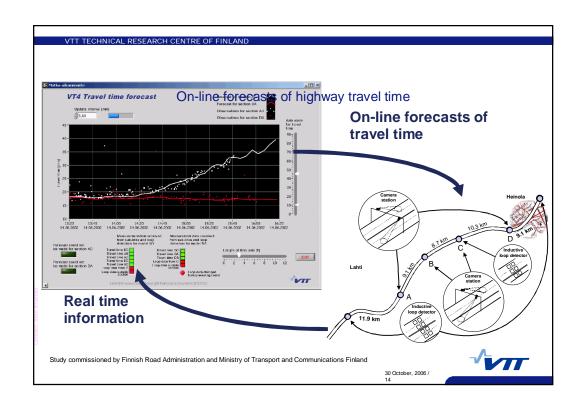


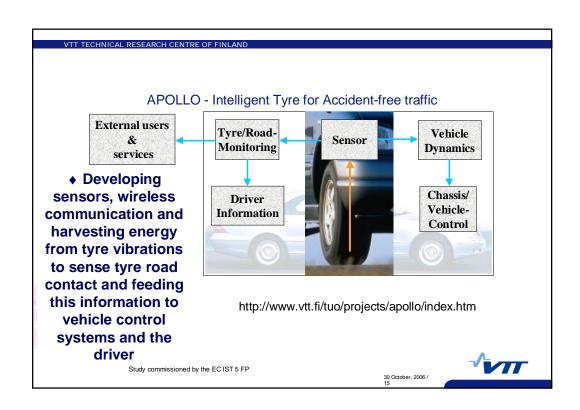


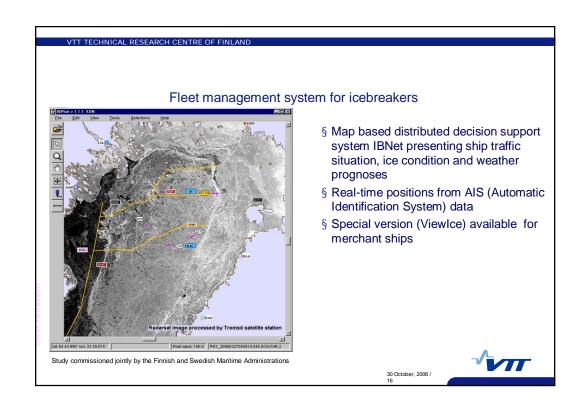




VTT TECHNICAL RESEARCH CENTRE OF FINLAND **Data Contents of** KOLLIOSOITELAPPU Missii - Frân - From Lappeenrannan Kemikaalituonti Oy Teollisuuskemikaalit **Electronic Waybill** Saimaankatu 12 53300 LAPPEENRANTA Needs, priorities and possibilities for Puh. - Tel. (05) 555 666 777 Lauri Lähettäjä Läh.pv - Avs-dat - Desp.Date 7.11.2003 ime-Til-To Varsinais-Suomen Tuotetukku Oy Kemikaaliosasto Rautatehtaankatu 2 20200 TURKU electronic transport documents and their implementation, using electronic waybill as use case. Puh. - Tel. (02) 888 999 000 Lars Larsson Kuljetus Oy Puh./Tel. 09) 111 111 111 The Standardised 123456789 **Transport Label** National recommendations for the standard form and content of transport labels. Studies commissioned by Ministry of Transport and Communications Finland and a group of Finnish logistics companies





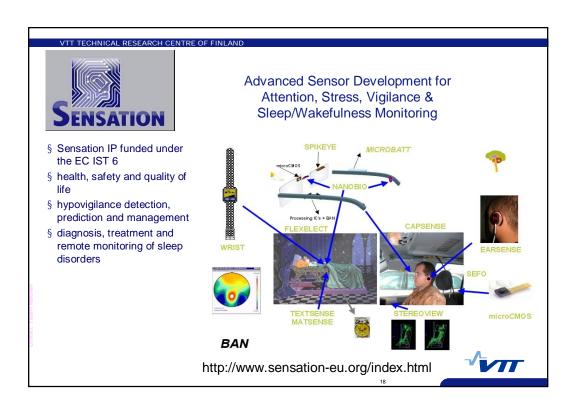


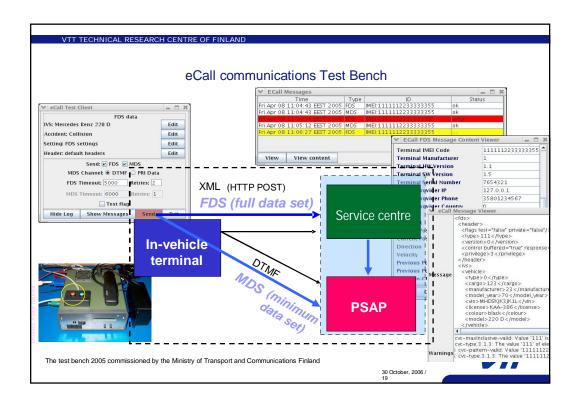
Wireless data transmission improves efficiency in road construction

The system provides up-to-date data on what is going on at a site and greatly improves efficiency and productivity in road construction and civil engineering projects.

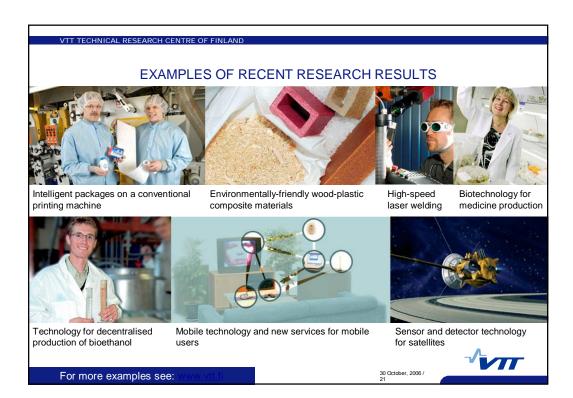
- § Driver acknowledges loading and uploading operations either with a mobile phone or onboard PC
- § Messages are transmitted over the public operator network and saved on the server
- § The system enables online transaction monitoring (materials, quantities, kilometres, hours worked by individual, vehicle and task)











IT'S ALL ABOUT THIS!

- § Finland's future is in innovations (open networking global markets services).
- § New competitiveness based on innovations is the key to our customers' success.
- § VTT's objective is to boost continuously the competitiveness of the customer by utilising its expertise, innovations and networks.
- § Our new operating model and new structure will help us to achieve this goal!

