

John Holm Secretary General SCANDINAVIAN GNSS INDUSTRY COUNCIL

CGSIC IISC 9th European Meeting

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November 30 - December 1, 2000. International Hydrographic Bureau Monaco



Background

SGIC was founded with the support and encouragement of the US GPS Industry Council

One of the SGIC initiators served as founding Chairman of the *International Information Sub Committee (IISC)* of the *Civil GPS Service Interface Committee (CGSIC)*.



SGIC established in 1996

Scandinavian GNSS Industry Council (SGIC), established in 1996, is an association of companies promoting and producing products and systems for satellite positioning and navigation.



Why GPS/GNSS Industry Councils?



The Need

Widespread and disparate use of GNSS requires appropriate industrial support, which, in turn, must demonstrate growth in order to attract investment.

To achieve this, the industry needs to address the following areas:



Stability

The industry must be fully aware of exactly which GNSS services are available, under what conditions, and at what cost.



Free Competition

These positioning systems must be as accessible as possible, free of conditions, trade barriers, unnecessary regulations and unacceptable political interference.



Co-operation

There is already much co-operation, both nationally and internationally, since the employment of GPS technology has already extended far beyond the development of policies and regulations. Joint measures need to be taken to assess the possibilities of beneficially integrating systems using GPS, GLONASS and the future European Galileo.





US GPS Industry Council -**USGIC**

The USGIC members are well-known GPS original technology innovators and industrial leaders in their respective fields.

Founded in 1991.



Japan GPS Council – JGPSC

Founded in 1992, JGPSC today has 80 members:

- **5** Automobiles (Toyota, Nissan, Honda, Matsuda and Suzuki)
- **9** Car Components and AVL Integrators
- **20** Electronics (Sony, Toshiba, Fujitsu, Panasonic, Pioneer, etc.)
- **5** GPS Receivers and OEMs
- **13** Surveying, Mapping and GIS
 - **6 Timing and Telecommunications**
- **3 DGPS Service Providers (excluding Government Operations)**
- **2** Aviation
- 17
 Maritime and Others (including Construction, Train, Police, User groups, Applicators and Trading)



International Co-operation

The GPS/GNSS councils work co-operatively across international borders on issues of common concern, such as:

- Signal interference issues
- >Spectrum management
- Preparatory work for WRC
- Feed back from the user community on expectations and experiences

Currently councils are working to provide perspective and foundation in the UWB case.



International Co-operation

Co-ordination between industry councils has helped to avoid trade disputes in Japan that have hampered other high tech industries such as semiconductors and mobile telephones.



visits

US Government Delegation Scandinavia

In August 2000, SGIC assisted the US Embassies in Copenhagen, Stockholm and Helsinki with planning advice and invitations directed to government representatives and industry participants to discuss GNSS and GPS with a delegation led by the United States Department of State.



Mission and objectives of

SGIG mote the commercial development of GNSS in Scandinavia and elsewhere, and to act as a link between

➢Industry

≻User Groups

Governments

>Authorities



The objectives are

achieved by site for external and internal information.

>Attending and participating in international exhibitions, conferences and seminars.

Distributing industrial, technical and commercial information to members.

>Co-operating with organisations engaged in complementary activities.

Acting as consultative body representing the commercial use of GNSS in discussions and negotiations with government and authorities in Scandinavia and elsewhere.



Members:

Adveto AB AM-TELE Mätinstrument AB B& M Systemutveckling AB Carmenta AB Celsius Aerotech AB ESRI Sweden AB KGK Fordonssystem AB MOWIC AB Orblet Technologies AB Saab Dynamics AB Silva Sweden AB Teracom AB Transas Scandinavia AB Aerotech Telub AB Axhede & Hansson AB C A Clase AB Cartesia Informationsteknik AB Enator Telub AB Hogia Räddningssystem AB Leica Geosystems AB Navdata OY Orblet Communications Group Saab Nyge Aero AB Spectra Precision AB Top Eye AB Tricom AB



SGIC web site:

•for member's products and services.

Meeting place

•for producers, providers and customers.

•Information source

•on GNSS systems and their augmentations.





Organization of European GNSS Equipment and Service Industries





SCANDINAVIAN GNSS INDUSTRY COUNCIL **Oregin members**:

BELGIUM: IMEC, Tele Atlas, SAIT Radio Holland, **FINLAND:** Nokia FRANCE: ACASA, BCI, CS Communications & Systems, Diginext, FDC, MORS, SAGEM, SATPLAN, Sextant Avionique, TEMEX, Thomson-CSF Comsys, T-CSF Airsys, T-CSF Detexis, GERMANY: Adtranz, Aerodata, Agrocom, Alcatel/ANS, BMW Ag, Daimler.Chrysler,ELNA, MAN Technoligie, Mannesmann VDO, Robert Bosch, Satcon, Skeye, **INTERNATIONAL:** ERTICO, EUTELSAT, **ITALY:** Alenia. Navionics. Next. Telespazio. Telit. **NORWAY:** Seatex **PORTUGAL:** Edisoft. THE NETHERLANDS: OmniStar, **U K:** ComDev,GSS,Ormstom, RACAL Avionics, Terrafix, **SCANDINAVIA:** Scandinavian GNSS Industry Council 20 **SPAIN:** INDRA Espacio, SEMA Group, SENA GPS,



SGIC Membership

Membership is open to:

Commercial companies and agencies whose activities include research, development, manufacturing or marketing of GNSS related products and services.

➢Public Corporations involved in GNSS technology.

Educational institutions with GNSS technology in their curricula.



Independence

SGIC is an independent organisation and its activities are wholly financed by membership subscriptions.

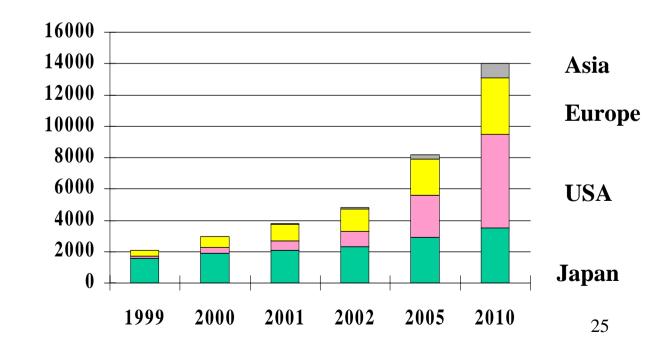


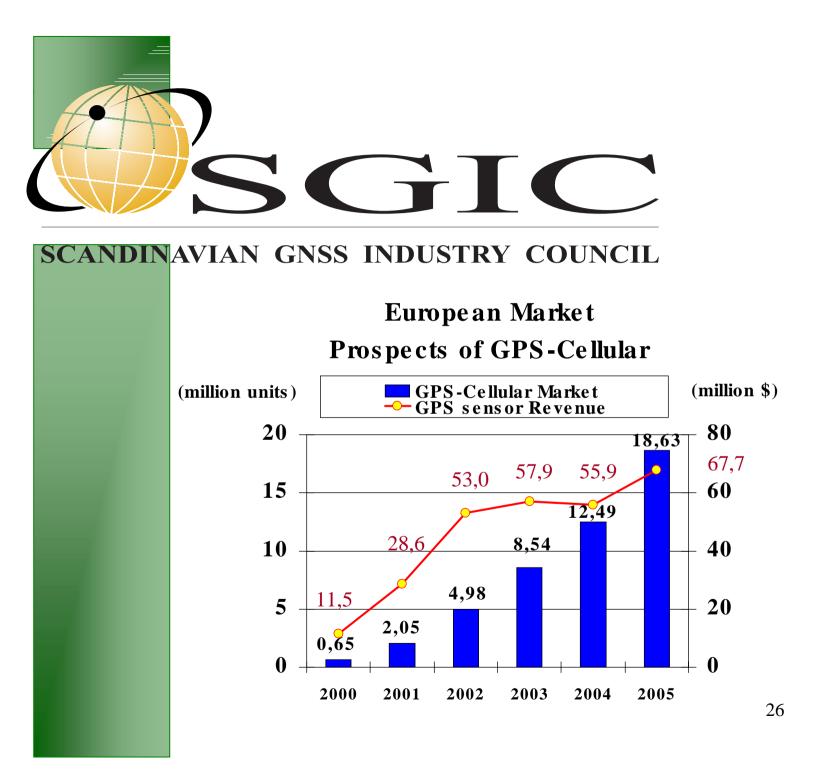
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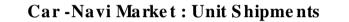
World Car-Navi Market Estimation

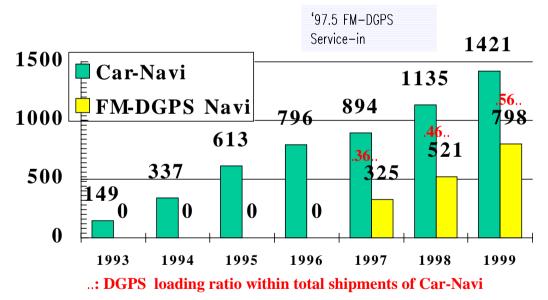






(1 000 units)





Increasing Ratio (vs previous year)

	1993	1994	1995	1996	1997	1998	1999	
Car- Navi	١	226	182	130	112	127	125	
FM-DGPS					١	160	153	27