

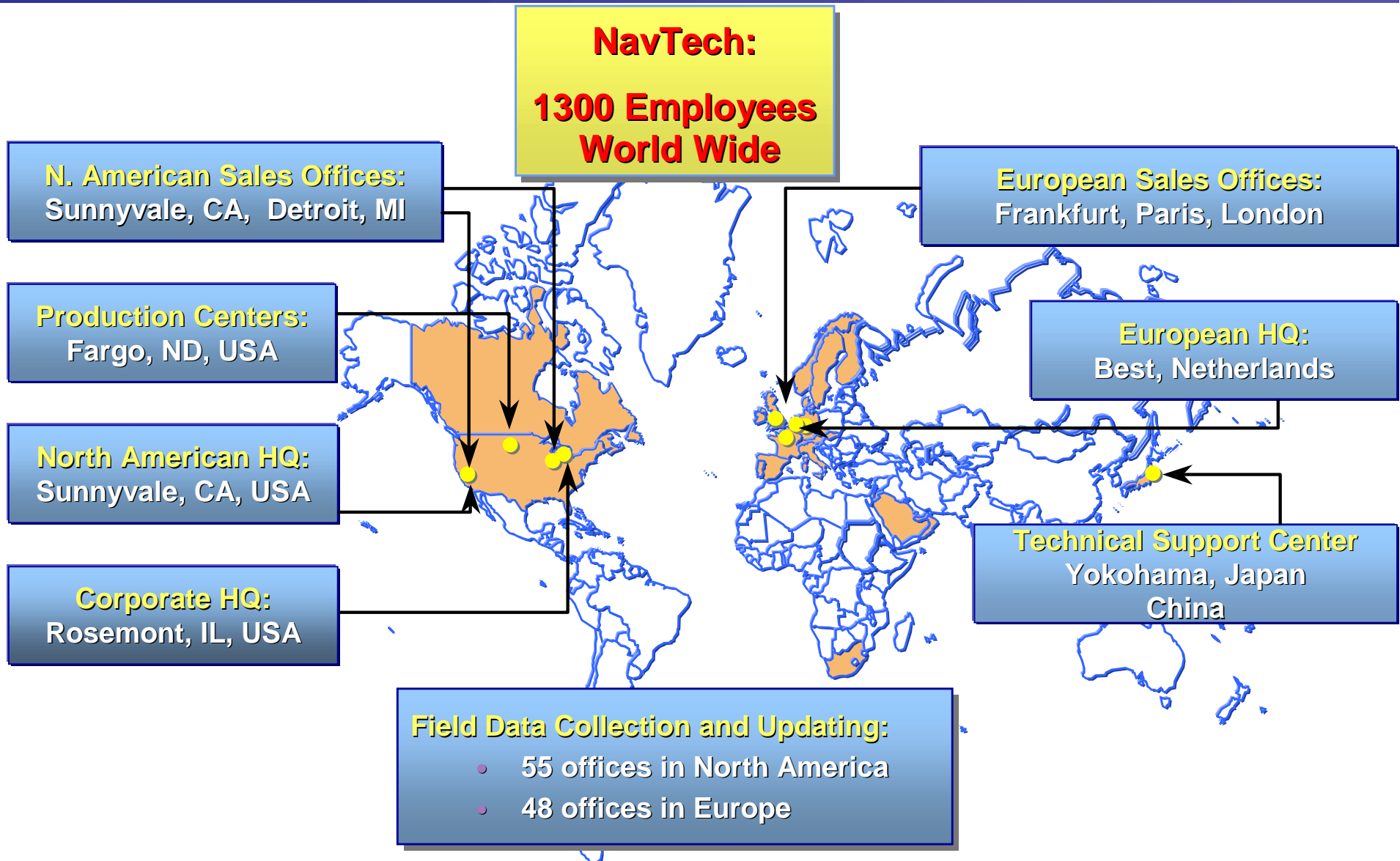
# NAVTECH

---

**Partner in Traffic and Navigation Solutions**  
交通及导航解决方案的合作伙伴

# Global Company Locations

## 公司全球分布图



# NavTech's Database Quality

## NavTech数据库的高质量

---

### ➤ ISO 9000

ISO 9002 certification for the creation, release, distribution and update of navigable database products worldwide.

### ➤ Quality Assurance

Navigation Technologies Quality Assurance policy is based on "Quality in the line". It is the responsibility of every employee of Navigation Technologies to work according to the ISO 9000 Quality Management System.

### ➤ Quality Testing

The quality of the Database can be tested according to the R.O.A.D. methodology. Navigation Technology has offered this methodology to be adopted into ISO standardization.

R.O.A.D: Reliability Of All Data

# NavTech's Database Content - Attributes

## NavTech数据库内容—品质特性

---

### ➤ **The NavTech Database consists of:**

- Nodes, Shape Points and Links, to represent the geometry
- For each link there is a choice of 150 attributes to describe the characteristics and functionality of a link

### ➤ **These attributes can be used for:**

- Destination Selection
- Route Calculation
- Route Guidance
- Map Display
- Map Matching
- Integration of Traffic Information

# NavTech - Services for Partners

## NavTech- 为合作伙伴提供的服务

---

### ➤ **NAVTECH® Technical Customer Support (TCS)**

This is a free service to NT customers. The TCS Group supports customers with dedicated technical support, including basic database training.

### ➤ **NAVTECH® Professional Services (NPS)**

NPS provides a range of consulting services to help customers from initial product concept to product launch.

### ➤ **NAVTECH® Distribution and Fulfillment Services**

A full range of services to deliver map data products to consumers.

### ➤ **NAVTECH® Real Time Map Services (RTMS)**

*On-line real-time* map access services.

# Vehicle Applications 车辆应用

## Car Models with OEM Navigation Systems supported by NavTech (以下不同车型使用了原装NavTech导航系统)

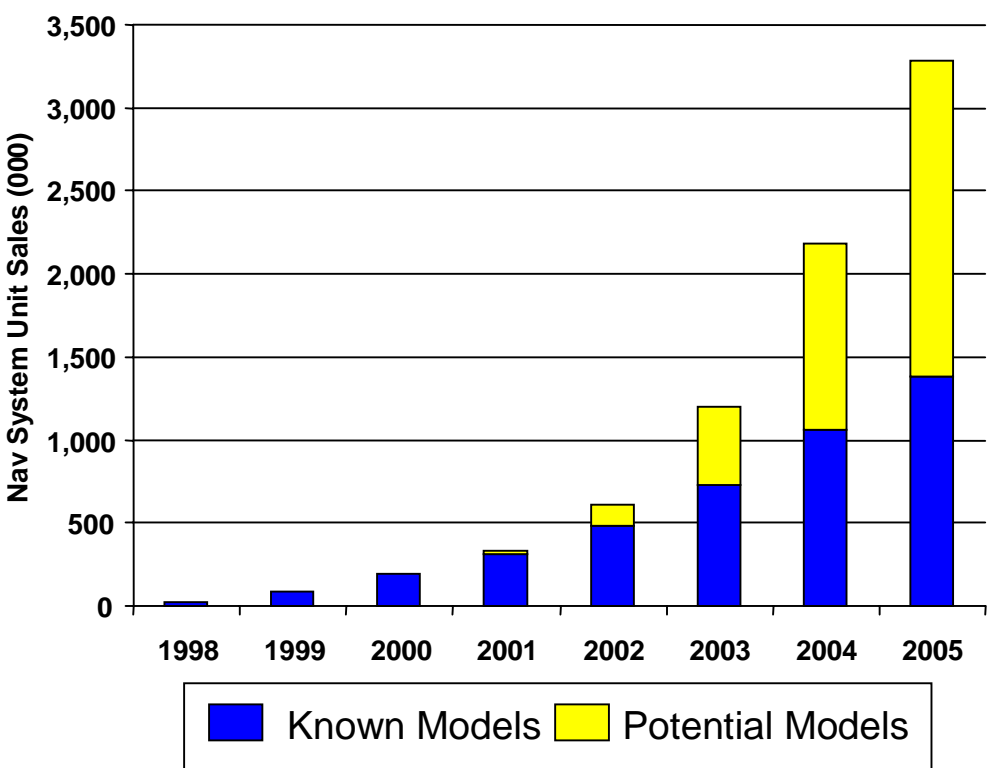


	1994	1995	1996	1997	1998	1999	2000	2001
Europe	1	3	11	23	42	83	123	147
North America	-	-	2	5	9	28	43	45
<b>Total</b>	<b>1</b>	<b>3</b>	<b>13</b>	<b>28</b>	<b>51</b>	<b>111</b>	<b>166</b>	<b>192</b>

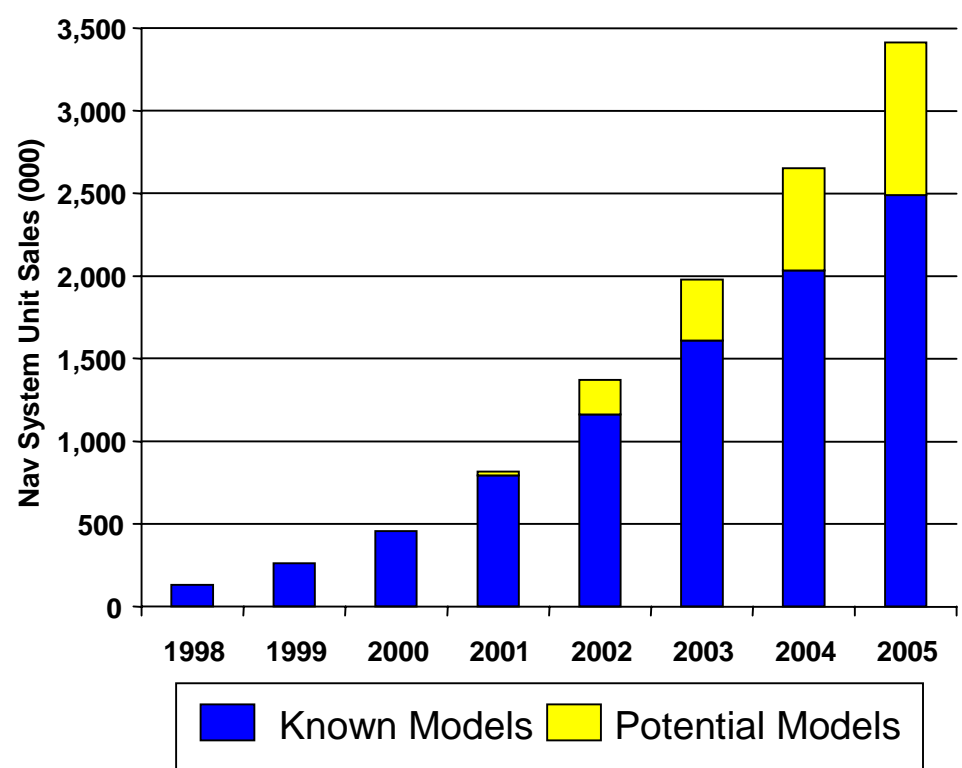
# Vehicle Applications 车辆应用

## Navigation System Market Size - OEM

### North America Total OEM Market



### Europe Total OEM Market



# Vehicle Applications 车辆应用

---

## ➤ **New Systems including:**

- Dockable PDA devices
- Addition of telematics interfaces
- Traffic-Information system applications
- Voice command and voice instructions
- 1st ADAS Database introduction in 2002

## ➤ **Service Provider businesses are increasing :**

- OnStar, Egery, ATX, FIAT-TARGA, ITIS others
- Services require full Database-Coverage to deal with roadside and emergency assistance

# Business Applications 商业应用

---

- Business Applications include Fleet / **Geographic Information Systems** and other business-business applications
- NavTech supports Fleet / GIS applications distributed through ESRI and Oracle, the 2 largest distributors in the world.

# Consumer Applications 消费应用

---

- Consumer Applications include:
  - Internet applications
  - Wireless devices
  - Personal navigation devices
  - PC applications
  
- NavTech currently supplies all North American and most European consumer Internet map and directions sites

# Consumer Applications 消费应用

---

- Wireless information services are increasing. Companies include: - NTT DoCoMo, Vodafone, Vivendi, Motorola
- Focus is on location based services
- Partnerships are being formed with location technology providers
- New range of “converged” devices are coming to market



# Industry's Choice      工业企业的选择

---

## Navigation System Manufactures

### NT Customers - NORTH AMERICA

Alpine	Panasonic
Bosch/Blaupunkt	Pioneer
Clarion	SiemensVDO
Delphi	Visteon
Denso	Xanavi
Magellan	
Melco	

### NT Customers - EUROPE

Aisin AW	Melco
Alpine	Mondial Com
Borg Instruments	Panasonic
Becker	Pioneer
Clarion	SiemensVDO
Denso	Visteon
Delphi	Xanavi
Grundig	
Magneti Marelli	

# NavTech – the Vehicle manufacturers' Choice

## NavTech - 汽车制造商的选择

### Vehicle Brands with Factory-Installed Navigation Systems

#### Vehicle BRANDS - NORTH AMERICA

Acura	Lexus
Audi	Lincoln
BMW	Mercedes Benz
Cadillac	Nissan
Honda	Porsche
Infiniti	Toyota
Jaguar	Volvo
Land Rover	

#### Vehicle BRANDS - EUROPE

Audi	Mitsubishi
Alfa Romeo	Nissan
BMW	Opel
Cadillac	Peugeot
Citroen	Porsche
Chrysler	Renault
Fiat	Rover
Ford	SAAB
Jaguar	Toyota
Lancia	Vauxhall
Land Rover	Volvo
Mercedes Benz	VW

#### Possible Vehicle BRANDS - China

Audi	Mitsubishi
Alfa Romeo	Nissan
BMW	Toyota
Buick/GM	Mercedes Benz
Citroen	VW
Ford	

# NavTech – the Industry’s Choice

## NavTech - 工业企业的选择

---

### Business Applications 商业应用

#### MAJOR PARTNERS - NORTH AMERICA

AT&T	Printak
Clicksoftware	Routesmart
Descartes	Schlosser
ESRI	UPS
FedEx	VIA Metro
Geocom	US DOTs

#### MAJOR PARTNERS - EUROPE

Alma Internet	Interstation
BCI	Intergraph
Bridgis	Kingswood
Carabinieri	KPMG
Descartes	ORACLE
ELDA	ORTEC
ESRI	Price Waterhouse
EuroAvionics	PTV
Geoconcept	VBB VIAK
IGN	

# NavTech – the Industry’s Choice

## NavTech - 工业企业的选择

---

### Consumer Applications 消费应用

#### SERVICE PROVIDERS - NORTH AMERICA

AOL / MapQuest	OnStar
AAA	Portable Internet
Holux	Object/FX
Maporama	Rand McNally
Microsoft	Response Services
Motorola	Vicinity
Palm	Zip2/MyWay
Yahoo!	

#### SERVICE PROVIDERS - EUROPE

AA Telematics	Netsolut
Andes	Opteway
AOL/MapQuest	PalmTop
Calta-Net	Route 66
CityDisc	ShellGeoStar
Compilo	Traffic Master
Garmin	Thomson
Global Telematics	VIASAT
IMIS	Vicinity
Mannesmann	Webraska
Mappy	WIND
Maporama	Zip2
Microsoft	

# NavTech – the Industry’s Choice

## NavTech - 工业企业的选择

---

- **50% of NT’s Operating Expense is spent on Database and Field Operations**
- **One Database Specification World Wide**
- **ISO 9000 certified**
- **Technical Customer Support - TCS**
- **Consulting services for software development support: Navtech Professional Services - NPS**