Nissan Future Technology Brief:



NISSAN Intellectual Asset Management Office

Nov 59,2007

Overview of Our Global Business



Headquarter in Tokyo



Nissan Design Europe (London)

Number of main branch offices: 67 worldwide

Number of employees (including consolidated subsidiaries) : 186,336 (as of March 31, 2007)

Worldwide car production in 2006:3,267,001

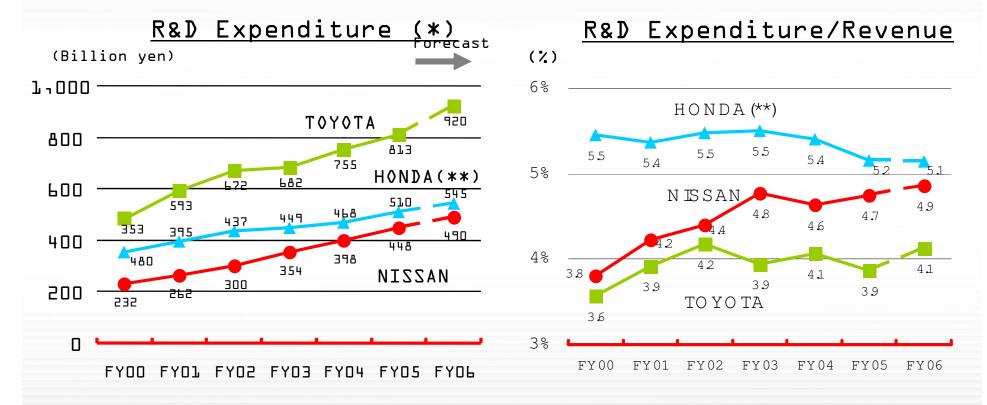


Canton plant
(Mississippi)

1. R&D Investment

1-1. R&D Expenditure

Resource allocation to R&D is on par with major competitors.

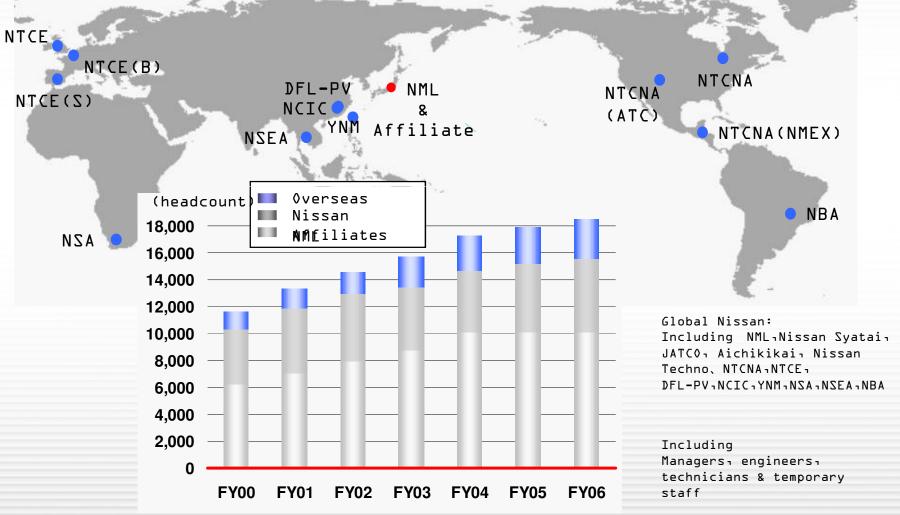


- * R&D Expenses: Including planning, design, production engineering.
- ** Honda: Including motorcycles

source: Honda annual report
Toyota annual report

1-2. Global Workforce

■ R&D headcount increases every year since FYDD.

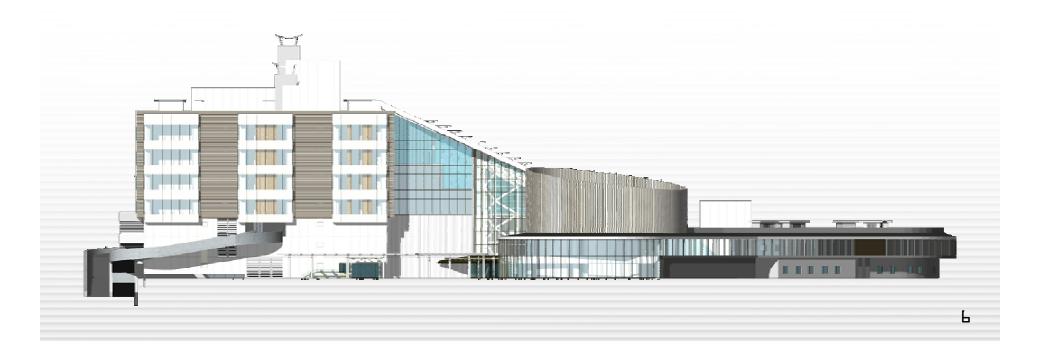


R&D Achievements (New technology rollout) ■ Technology applications on the rise.

▲World first ■ Japan first

| | 190 | 191 | 192 | 193 | 794 | 195 | 196 | 197 | 198 | 199 | ססי | 101 | בסי | פסי (| 704 | 105 |
|-----------------------------|-----------------------------------|------------------|------------------|----------------------------|--------------------------------------|---------|--------------------|---------------|------------------|---------------------------------|---|--|---|---|---|------------------------|
| Vehicle system | | | | | | | | | | | ●Hypei ●HEV | | Fleet (I | JS) Fleet(Ja | ●FCV pan)(In- | FCV • nouse Stack |
| ZTI | | | | | s-eye v | | | | •Lase | ●Emerg ■Bra | k auto ci ency cal king coi | ●Pre ruise co l ▲Lan ntrol AC | view bra ACC w ntr@bllo ne keep ■Ca | king ass ith Low- wing cap •Inte Brake wings | ist speed ability • lligent | |
| Environ- ment | | | •N · C | т | •Lea | | ER CVT (Engine | (2L) ^ | DI-G •M-F: | ▲HC ire dire P-ZEV(U | trap ter •Alur ct-inje S) • (0) rail DI | rnary ca minum bo ction di P coolan | talyst dy esel*e·4 t air cor | •Shredde recyc: JD •S ditione | r dust ^{re} ing star U-LEV | uction t |
| Safety | •Air •Ure ■V-T | thane : | .njecti | 1 | body c lar | | •Side | airbag | ■Activ Curta | e head i in air b oraking | restrain ag cove assist In | t Act red to a Pre telligen | ive seat third s -crash s t brakin | cushion eat eambelt• q •AF | temp s meas | eratures urement |
| Dynamic perform- ance | ▲4-whe ▲Elect ▲5AT ▲Hydr | el mul ronica | lly co active | k susp •Activ ntroll | ension (eLSD) ed tord •Mult | ue spr: | t 4WD beam su | active | | alve ti | ROID CV ming li | sist≜(on t Va µal fl¢ı | tinuousl lve timi eVøa(t)h sh | y variab ng contr ock abso | le ol orber ▲ Steering | • |
| Comfort | | ▲Act | ive no | ball ise co | bearing Adap | tive co | ntrol e | ngine m | ntrolle ount≜ | d fuel | Injectio FM ■Mor | n Diesel Package pho-tone | seat cl | Control | e shift AT Inte air- | lligent |
| Comitor | ■Ure | thane p | baintir | ıg | | Hydro- | forming | proces | sing■ | | ▲Was | hable lu | ggage bo | ard _{Easy} Remote c | luggage | s⊌គeem • lding seat |

2. Nissan Advanced Technology Center (NATC)



Recent Technologies



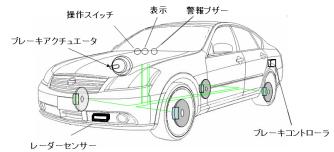
X-TRAIL FCV



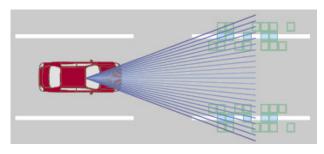
<u>Altima Hybrid</u>



XTRONIC CVT for



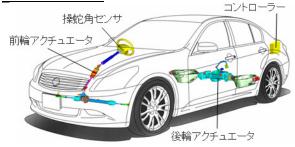
<u>Intelligent Cruise</u> <u>Control</u>



<u>Lane Departure</u> <u>Warning</u>



Qashqai 4x4



4 Wheel Active Steer



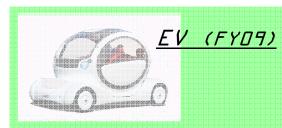
New Generation Carwings

Environment Technologies

Technologies on track to 'Nissan Green Program

SKY project (FYD9)

SKY PROJECT



Clearn Diesels (FYD8-10)







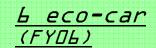
<u>In-house HEV</u> <u>(FY10)</u>















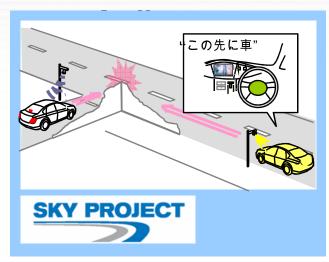






Safety Technologies

Provide leading technologies based on the concept 'Safety Shield' that vehicle helps protect

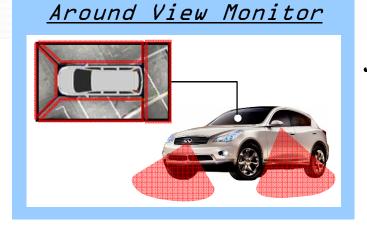




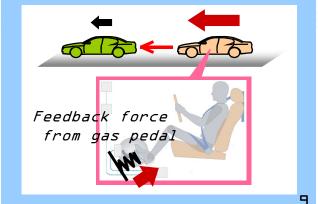


SAFETY SHIELD

Distance Control Assist



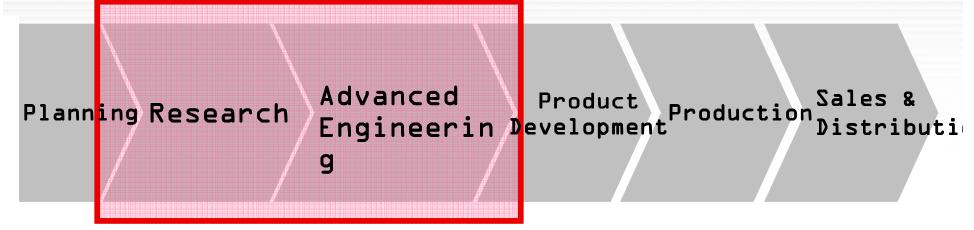
Safety Shield Concept



NATC overview



NATC main focus



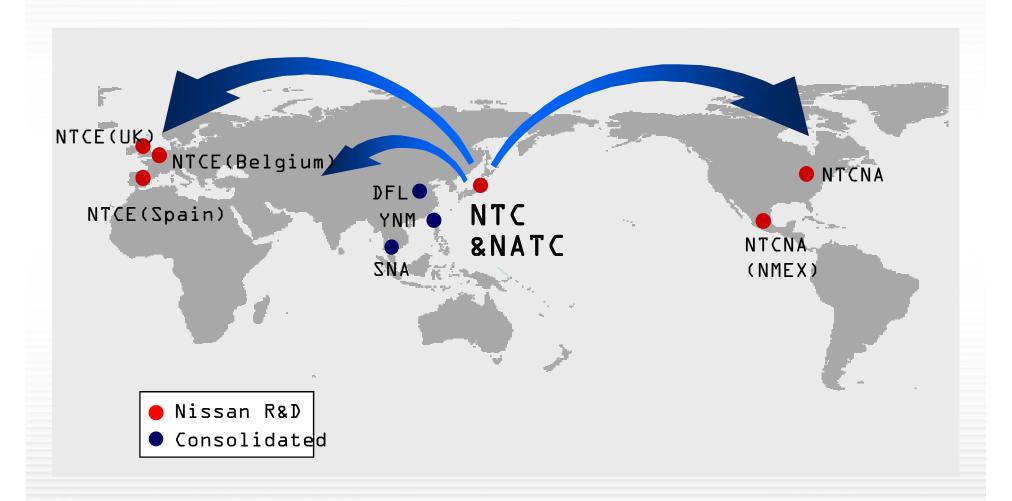
Research & Advanced engineering to provide new technologies to Products

Focusing on:

- Advanced vehicle
- Electric powered vehicle & components
 - IT / ITS
 - Future mobility & society etc.

NATC in Global Nissan R&D

Deliver new value and technologies from NATC



Craft room for quick prototyping

- 3 craft rooms on each floor
- Quickly repeat innovation cycle by prototyping near working desk



"Info-Street" to get latest knowledge and

tibudh new vehicles, technologies, and trend
of world
customers

