

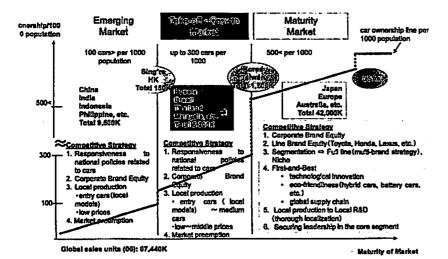
Global Competition between Japanese and Korean Automobile Companies

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Version 2008

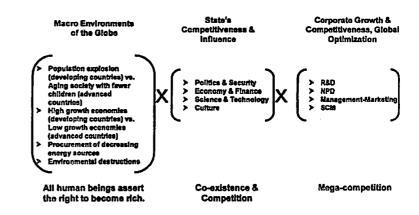


Competitive Dimensions, Different from Market to Market



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World, Nation, Enterprise at Present....

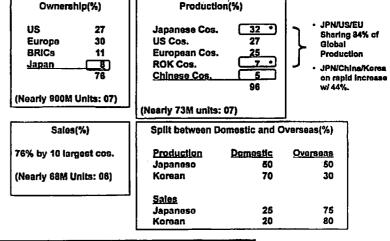




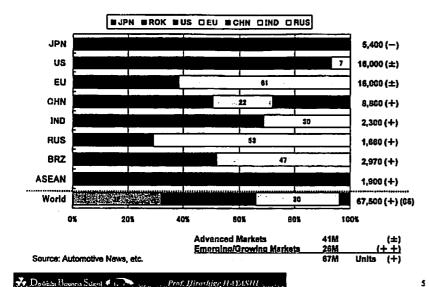
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World-wide Car Market

Global Production Value at (¥) 283.5Trillion. Production value in Japan at (¥) 65.4Trillion or 23% of the world.



Sales Units Share, Major Countries by Major Players (07, and partly 06)



Why Japan and Korea in Head-on Competition on Autos (2)

Auto Industry, the Biggest Growth Engine of Economy

<u>Japan</u>

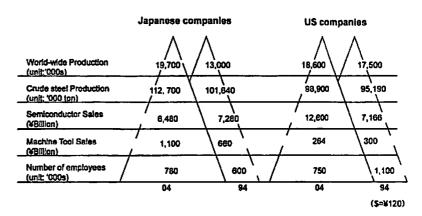
- · Production value:
- ¥45 Trillion, or 14.1% of total industrial outputs
- Employment:
- 850K employees, or 8.1% of total manufacturing industries
- including related industries (sales, service, transportation, logistics, insurance, finance, etc.), 5,130K employees in total, or 8.1% of the total employment in Japan.

Source: Automobile Almanac Handbook (03/04)

Design Businer Servet . . Prof. Hiroshiga HAVASHI.

Why Japan and Korea in Head-on Competition on Autos (1)

Auto Industry, the Biggest Growth Engine of Economy



Source: Japan Economic Journal (1/1/06)

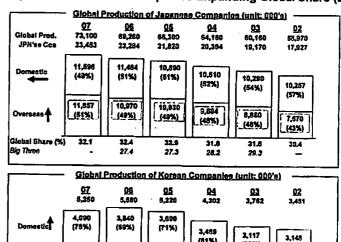
(91%)

203(9%)

5.9

V. Destrict Bestres School Prof. Hlroslige HAYASHI

Both Japanese and Korean Companies Expanding Global Share (2)



1,521

(29%)

7.9

(81%)

~833(19%)

6.7

645(17%)

6.2

Daniela Bossera School 🗸 🧎 Prof. Hiroshige HAYASHI

1,740

(31%)

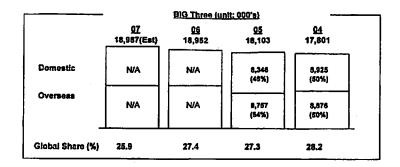
8.1

1,150

Overseas 4

Global Share (%)

Both Japanese and Korean Companies Expanding Global Share (3)



07/06 Global Production Units: An increase of +3,900K. China shared 44%.

China	44%
BRI (w/o China)	21%
Others	35%
	100%

A Dorata Buiser Sport Prof. Hiroshiye HAYASHI

Both Japanese and Korean Companies Expanding Global Share (5)

Domestic Sales vs. Overseas Sales

KOR'an Companios

03	Domestic 1,318	<u>Oversgas</u> 2,460	Domestic / Overseas 35 (86)
04	1,093	3,212	25 75
05	1,150	4,107	22/78
06	1,196	4,384	21/79
07	1,219	4,031	22.78
	•		Source: KAMA, etc.

	Domestic									
	07(share)	06(share)	05(share)	04(share)	03(share)					
lyundal / Kia	880 (72.2%)	816 (68.2%)	783 (69.5%)	748 (69.8%)	886 (68.6%)					
SM Daewoo	148 (12.0%)	129 (10.8%)	121 (10.7%) 109 (9.7%)	121 (11.3%) 98 (9.1%)	144 (11.1%) 131 (10.1%)					
Sangyong Samsung	74 (6.1%) 119 (9.7%)	130 (10.9%) 121 (10.1%)	95 (8.4%)	82 (7.6%)	110 (8.5%)					

Source: Automotive News

Both Japanese and Korean Companies Expanding Global Share (4)

Domestic Sales vs. Overseas Sales

Both show overseas sales increase in succession. Domestic sales in recession.

PN'se Comp	anles	Domestic	excl.light	com)	Oversens	Domest	ic/Overseas
	03	5,828	(4,027)		13,342	3	0/701
	04		(3,982)		14,541	2	9/171
	05	5,852	(3,928)		15,483	2	7/73
	06	5,740	(3,716)		17,544	2	5/75
	07	5,350	(3,434)		18,103	2	3/77
г				Domestic			
_13	07 (share)	06	!	05 (share)	Ω	4(share)	03(share)
Toyota(*)	2,261 (42.2%)	2,273		189(40,5%)	•	8 (40.8%)	2,295 (39.4%)
Nissan	721 (13.5%)	740	8	68 (14.8%)	827	(14.1%)	825 (14.2%)
Honda	622 (11.6%)	672	7	14 (12.2%)	743	(12.7%)	715 (12,3%)
Suzuki	671 (12.5%)) –		-	•	•	- '
(*)Ind. Dalhate	iu, Hino						
		Oversess			Dome	stic/Ove	15005
	<u>07</u> <u>06</u>	<u>05</u>	94	03	<u> </u>	<u>Q4</u>	<u>03</u>
↑ 6.8	903 6,251	5,610	5,486	4,928	25. 75	30/70	32/68
† 2,	950 2,743	2,727	2,363	2,117	20/80	26/74	28/72
Ă	290 2,980	2,695	2,494	2,208	16/84	23/77	24/78

Prof. Hiroshige HAYASHI

Position Shift of Major Players (1)

Doublika Budara Squart

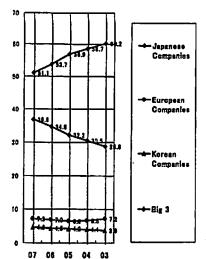
Global Sales (unit: 000's, 52 major nations/regions)

	97	<u>06</u>		05		04		03	
	N/A	67,443		65,050		62,538		58,753	
1. GM	9,369	9,090		9,200		8,990		8,600	
2. Toyota (Japan)	9,366	8,800		8,100		7,470		6,780	
3. Ford (US)	6,553	6,008		6,600		6,800		6,720	
4. WW (Germany)	6,189	5,730		5,240		5,080		5,020	
5. DC (Germany/US)	*	4,749		4,500		3,900		4,360	
6. Hyundal (Korea)	3,967	3,753	8th	3,550	7th	3,180	6th	2,800	Oth
7. Honda (Japan)	3,767	3,550	7th	3,425	8th	3,160	9th	2,910	8th
8. Niesan(Japan/France)	3,671(12)	3,480	8th	3,598	6th	3,300	7U1	2,970	7th
9. PSA (France)	3,428	3,366		3,390		3,380		3,270	
10. Renault (France)	N/A	2,430		2,532		2,490		2,390	
11. Chrysler	2,676								
12. Suzuki	2,375								

(*) DC is separated between Daimler and Chrysler.

Source: Japan Economic Journal, etc.

Japan-Korea Competition in US (1): Setbacks of Big3



Unit Share (%)

	<u>07</u>	<u>06</u> "	<u>05</u> "	<u>04</u> ′	03
Toyota	16.2	15,4	13.3	12.2	11.2
Honda	9.6	9.1	8.6	8.2	8.1
Nissan	6.6	6.2	6.3	5.8	4.8
Hyundai	4.8	4.5	4.3	4.1	3.8
GM	23.7	24.5	26.2	27.5	28.3
Ford	15.8	17.5	18.6	19.6	20.9
Crysler	12.9(*)	14.4	14.9	14.4	14.1
(000°s)	16,148	18,560	16,995	18.913	18,675
•	(°) w/o M	ercedes	•		

Source: Automotive News



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Japan-Korea Competition in US (3): Swift Growth of J-K Companies

Jananese Companies

- ① Continued quality improvement of small-medium cars resulting in higher cost performance and further expansion of consumers' acceptance.
- ② Further increase of local production and procurement by Toyota in Texas. Preemptive avoidance of auto-trade conflicts.
- Introduction of eco-friendly hybrid vehicles by Toyota and Honda. Consumers' strong appreciation and popularity in line with both increasingly high consciousness of eco-friendliness and higher gas prices.
- Aggressive entry Into the Big 3's strongest segment of pick-up trucks by offering sedan-like driving comfort.

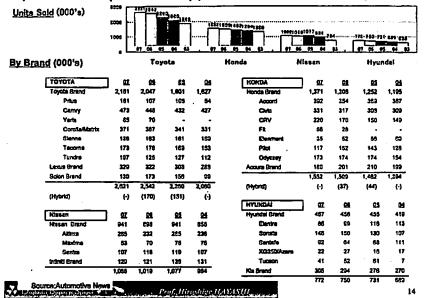
Korean Companies

While adopting and imitating Japanese companies' ①②③ strategies, they offer "second-and-cheaper" benefits, similar or equivalent to those of Japanese rivals at cheaper prices.

- S Better initial quality of Sonata vs. Carrry.
- Local production started in Alabama.
- ① Introduction of hybrid cars Initially scheduled in 06, but later postponed till 09.
- B Entry into the luxury segment, with Azera (08), Veracruz (06, Santafe base), and Genesis (08).



Japan-Korea Competition in US (2): Successive Growth of J-K Companies



Japan-Korea Competition in US (5): Toyota vs. Hyundai

1. Volume-sold car segment

- Toyota: Corolla & Camry, their local production to reach 60% or more (over 1.3 million units)
- 2) Hyundal: Elantra & Sonata started local production in May, 05. Annual 300K units.
- 3) Hyundal vigorously competing with Toyota and Honda with high IQS (initial quality study) evaluation following Toyota and equivalent to Honda. The company offering 100,000-mile warranty at 10%-20% cheaper price than Japanese rivals. However, "durable" quality is much lower than Toyota and Honda.
- Toyota's overwhelming brad power and localization efforts supported by US citizens cannot be easily overcome by Korean rivals.

2. Entry Car Segment

- Toyota with Scion entered Hyundai's franchise segment of entry cars, eating into the target segment of Elantra and Schata.
- 2) Toyota, not only competing with Hyundal, sims to capture the minds of 64 millions of young people coming into the entry segment in succession after acquiring a driving permit in the next 10 years. Toyota endeavors to succeed in guiding those your people to follow an upward migration starting from Scion to volume-sold care such as Corolla, Carrry, etc., then to pick-up trucks and luxury cars including Lexus.



Japan-Korea Competition in US (5): Toyota vs. Hyundai

3. Luxury Car Segment

- J3 of Toyota (Lexus 330K units), Honda (Accura 180K units) and Nissan (Infinity 130K units) lead the segment.
- 2) Hyundai launched a semi-luxury sedan of Azera (3.6i) in November,05 to catch up J3, while announcing to introduce a luxury brand of Genesis in 08 to compete with Lexus, Accura, etc. Whether they will succeed with a Second-but-Better strategy against Toyota remains to be seen.
- 3) Hyundai's first trial of luxury car marketing looks challenging. They have to offer and satisfy consumers with a sense of owner's pride and prestige, and driving comfort and reliability beside conventional high quality vs. price trade-off. Those consumers look for more psychological and emotional benefits.



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Japan-Korea Competition in US (8): Hyundai, a dreadful tiger

1. Catch-up Strategy In US

While adopting and imitating Toyota's strategies, Hyundal developed second-butcheaper strategies through speedy decision making, putting them into thorough implementation and accelerating catching up the Japanese rivals. Many of Hyundal America's key persons are ex-J3 executives of their US subsidiaries including Toyota Motors USA. They stage a frontal attacks against J3 with a slogan of "Catch up and Surpass J3".

- Upward migration strategy of Entry cars → Medium cars → Premium/Luxury cars
- · Introduction of eco-friendly hybrid cars
- · In the future, Second-but-Better strategies have yet to be successful.

2. Catch-up Strategy In Japan

Several tens of Hyundal people staying in Nagoya and its vicinity doing Al transfer studies from Toyota. Their info is collected in the Hyundal's headquarters in Seoul as input for the company to develop competitive strategies against J3 all over the world.

- 1)Market-entry strategy, 2)Branding strategy, 3)Hybrid car strategy, 4)Follow-Lexus strategy, etc. being developed in Seoul and conveyed to major markets on the globe.
- J3 still stronger than and ahead of Hyundai in the US and the ASEAN countries, but in the other markets including China, Europe, Russia, India, and Middle-East, Hyundai's "Second-but-Cheaper" strategies working well and even surpassing J3 in some countries.

ADENCE Breen Success The miner appropriately published in the

Japan-Korea Competition in US (6): Toyota's Strength

- Always successfully implementing First-and-Best product development and marketing strategies while keeping the leadership of the small and medium car segment. No.1 in the luxury segment with Lexus, rapid growth in the entry car segment with Scion, global leadership with Prius in the environment technology. Toyota accelerates "disruptive innovation" in both R&D and marketing areas.
- Being in pursuit for consumer satisfaction to perfection. Lexus' marketing is a case in point.
- Never satisfied with what's up today. A sense of crisis always being in place does encourage Toyota people to always chase for a First-and-Best performances.
- Creating new brands in succession for the future market. Scion and Prius are typical examples. The IMV (International Multi-purpose Vehicle) project in Asia is a third example.
- > Thorough localization of R&D, Production, Sales & Marketing.
- > Initiation of global spiral evolution of brand value creation (to be covered in details later).



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Japan-Korea Competition in China (1): Market Dynamism

China Markot (Units sold: 000's)

	P	<u>07</u>	<u>06</u>	<u>05</u> -	<u>04</u> 7	<u>03</u>	<u>02</u>
All cars		8,882	7,150	5,720	5,230	4,440	3,290
Sedans including SUV & Miniban (Est)		6,300	5,200	3,950	3,200	2,083	_

Source: Searchina, Automotive News, etc.

Car Ownership/ 1000 (02)

China	20(04), 35(08)
Japan	577
RÓK	272
Talwan .	250
India	11
Indonesia	24
Philippines	30
Thailand	100
Malaysia (99)	161

Japan-Korea Competition in China (2): Chinese Manufacturers

V	olume Produced	(units: 0	(3,00						
		07	06	05	Share(%)	04	Share(%)	03	Share(%)
1	. 第一汽車(FAW)	1,150	1,180	983	17.2	1,080	24.3	880	19.3
2	. 上海汽車(SAIC)	1,690	1,250	1,050	16.0	850	19.1	800	17.9
3	. 東風汽車(DFM)	950	940	729	12.7	500+	11.3	470	10.6
4	. 兵安汽車(CCA)	980	710	631	11.0	580	13.1	-	-
5	. 北京汽車(BAIEC)	570	680	597	10.4	500+	11.3	-	
	Chery(奇绪)	369	302	*		*		*	
	Geely(實料)	220	205	*					

Source: Automotive News

Chinese Brands vs. Foreign Brands

	<u>07</u>	06
Domestic	29 (%)	28 (%)
Japanese	28	25
European	23	24
US	13	13
Korean	7	10

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Japan-Korea Competition in China (5): Emerging Hyundal, Growing Honda and Struggling Toyota

Hvundei Started a joint-venture with Beijing Motors in October, 02, challenging VW with a low-price strategy and achieving a high growth in the entry car segment. China is an entry car market by definition.

> In China, almost everyone buys a car for the first time. The entry cars of Accent (1.4i) and Elantra (1.8-2.0i), and Sonata (2.4i) enjoying high popularity.

> In the beginning, Etantra with IQS levels equivalent to those of Corolla priced at Yuan 25,000 lower than Corolla. Its design better fits "showy" tastes of Chinese consumers. They pay cash for a Hyundal car on the spot at the dealer, immediately drive out into the town, and showing it off to other people.

> Corolla, on the other hand, asks for an advance payment and let them wait for a month or two before car delivery. Toyota does not understand how Chinese consumers feel excited when they are about to buy their very first private car in life.

in 07, Hyundai experienced a major drop of 16.5% of sales units vs. 06.

High awareness and reputation already established with its motorcycle, enjoying strong brand equity and familiarity. Minimum negative association with HINOMARU, the Japan's national flag.

Japan-Korea Competition in China: Competition among Global Players

Units Sold by Globa	1				
	07	06	05	04	03
Toyota	455	308	294	258	210
Honda	422	323	243	214	118
Nissan	281	211	113	100	106
Hyundai	343	411	279	245	130
vw	948	775	794	698	725
GM	528	447	312	275	220
Ford-Mazda	270	182	187	164	107
Total (Sedans)	6,300	5,200	3,950	3,200	2,083

Source: Automotive News

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Japan-Korea Competition in Europe (28 nations): Units Sold in 000's

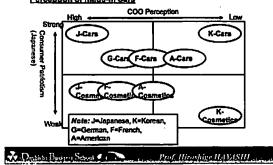
•	_0;	<u>06</u>	05				
Toyota (1)	930	897	818				
Nissan	31 ⁻	1 314	357				
Honda	314	4 276	258	(1)	Including Lexus		
Hyundai (2)	56°	1 513	561	(2)	Including KIA		
Total M	larket 15,950	15,365	15,255	()			
	07	06	05				
vw	3,151	3,112	2,995				
PSA	2,051	2,019	2,062	TOYOTA		06	05
Ford	1,688	1,624	1,638	Lexus	. 40	39	22
Renault	1,381	1,324	1,488	Toyota	890	858	795
GM	1,635	1,585	1,630				
Flat	1,249	1,158	989			_	
Mercedes	828	828	914			Source	: ACEA
BMW	848	793	779				

Korean Cars in Japan

Korean Car: Units Sold	7					
	07	06	05	04	03	02
Total Foreign Cars (000's)	232	247	249	244	246	260
Japanese Cars(000's) (imported)	33	16	19	29	31	16
Total	265	262	268	273	281	276
Share of Foreign Cars (%)	(5.0)	(4.6)	(6.3)	(6.2)	(6.1)	(6.6)
Hyundal-Kla	1,223	1,651	2,295	2,524	2,426	2,432

Perception of Made-In Cars

Source: JAIA



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Issues of Hyundai (1): Productivity and R&D Investment

~ Low Productivity Coupled with Low R&D Investment, and Pressure for Quality Improvement, Will Hyundal be Another Toyota, or Mitsubishi ? ~

Productivity/unit & R&D (04)

	# hours/unit (07)	R&D (\$M) (04)		
	(US)			
Toyota	30.37	5,886		
Honda	31.33	3,873		
Hyundai	35.10	607		
GM	32.29	5,751		
Ford	33.88	N/A		

Source: Chosun libo (8/26/05) / NIHON KEIZA (6/10/08)

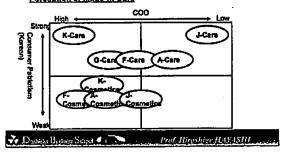
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Japanese Cars in Korea

Japanese Car: Units Sold	7					
	07	06	05	04	03	02
Lexus (J)	7,520	6,581	5,840	5,382	3,772	2,968
BMW	7,618	6,101	5788	5,509	5,438	5,007
Mercedes	5,533	5,026	4,012	3,188	3,124	2,070
Honda (J)	7,109	3,912	2,709	1,475(1)		
Infinity (J)	3,004	1,712	531(2)	_		
Audi	4,780	3,987	2,698	807		
Share of Foreign Cars	53,390	40,530	30,901	23,345	19,461	16,119
	(4.2)	(3.3)	(2.6)	(2.1)	(1.5)	(1.0)

Perception of Made-in Cars

Source: KA/SA



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Conclusion

- Both domestic markets being stagment for years, J-K companies keep growing in overseas markets where Japanese on steady growth while Koreans challenging Japanese. J-K companies leading the accelerating growth of the small and medium size segments of the world.
- Japnese companies (J3 in particular) overwhelming Korean rivals in technology development and marketing-branding white Hyundai thoroughly benchmarking Toyota to catch up the difference. In the emerging markets of BRICs, Hyundai's competitiveness is threatening to Japanese rivals. In some markets of Europe and BRICs, Hyundai is already ahead of Honda and Nissan.
- Japanese companies share 32-33% of the world production in aggregate units followed by American companies (Big3) with 28-27%. J3 take a combined share of 24%. Koreans produce 8% or one fourth of Japanese. Both Japanese and Koreans lead the growth of global production and sales.
- 4. To keep the global No.1 position, Japanese companies should keep creating and innovating first-and-best performances in technology development and marketing competitiveness. Toyota's superior global competitiveness in the areas is a strong engine of Japanese competitive advantage in the global scenes.

