

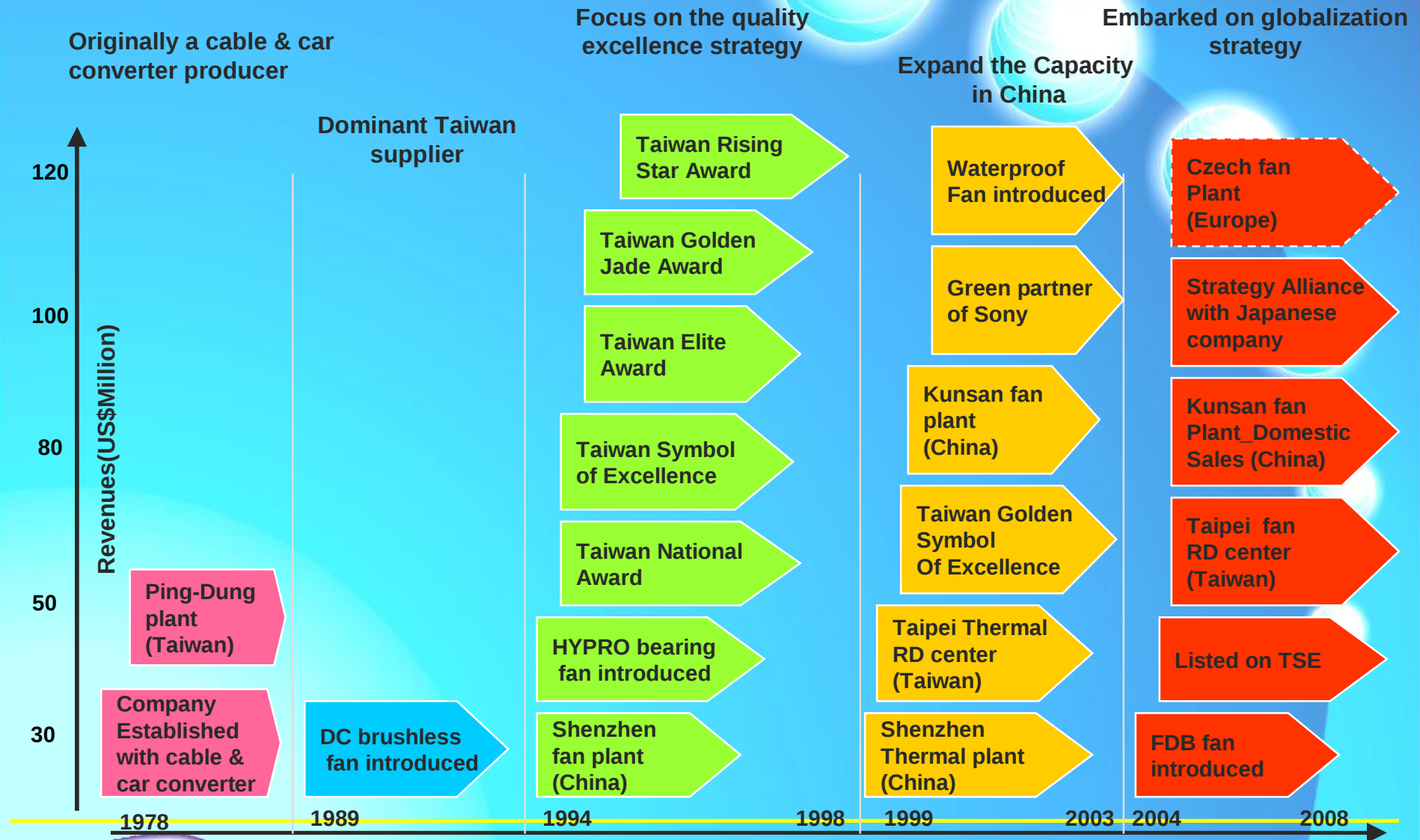


協禧電機股份有限公司 ADDA CORPORATION

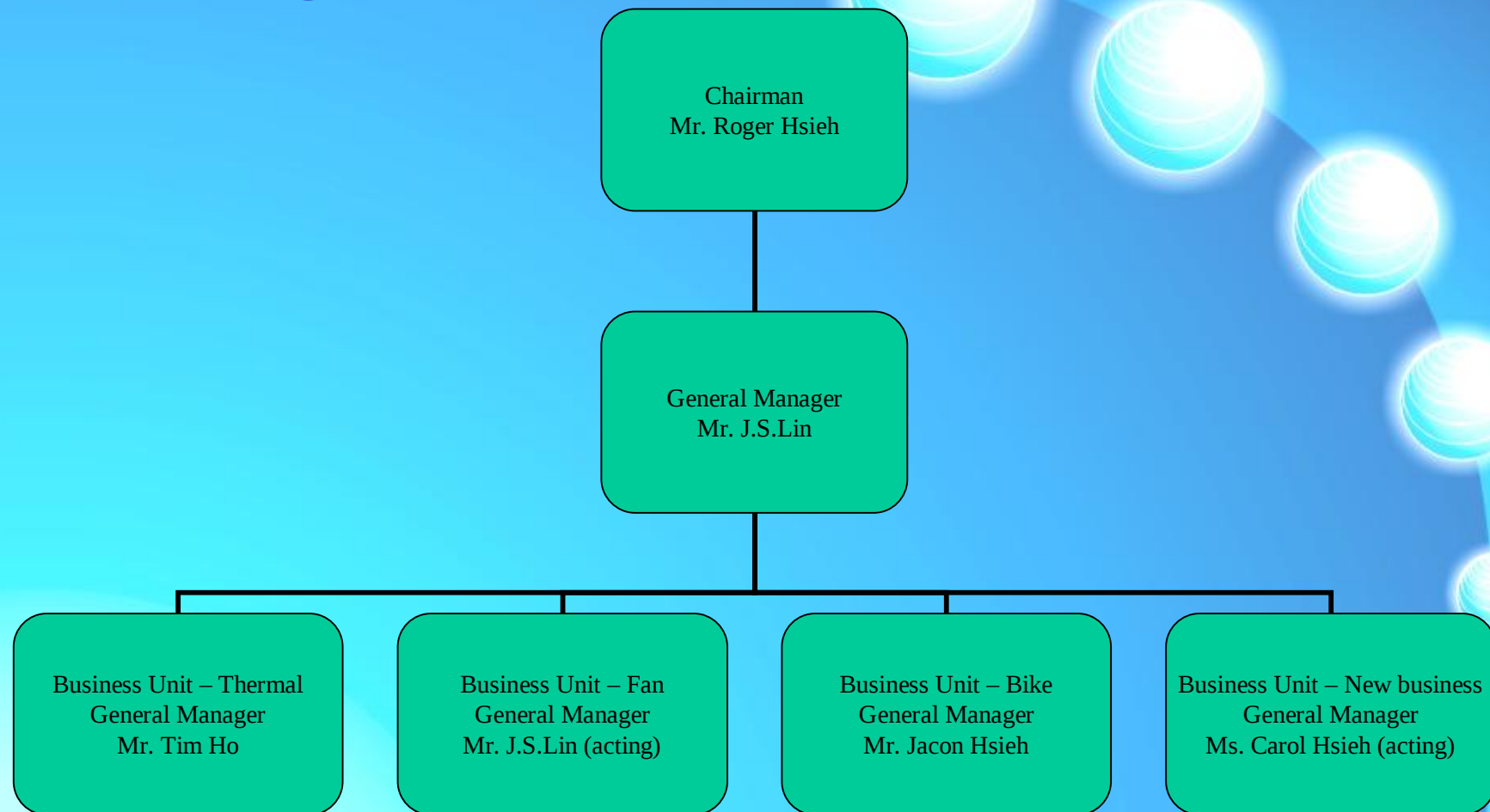
Company Profile
Ver 4.3



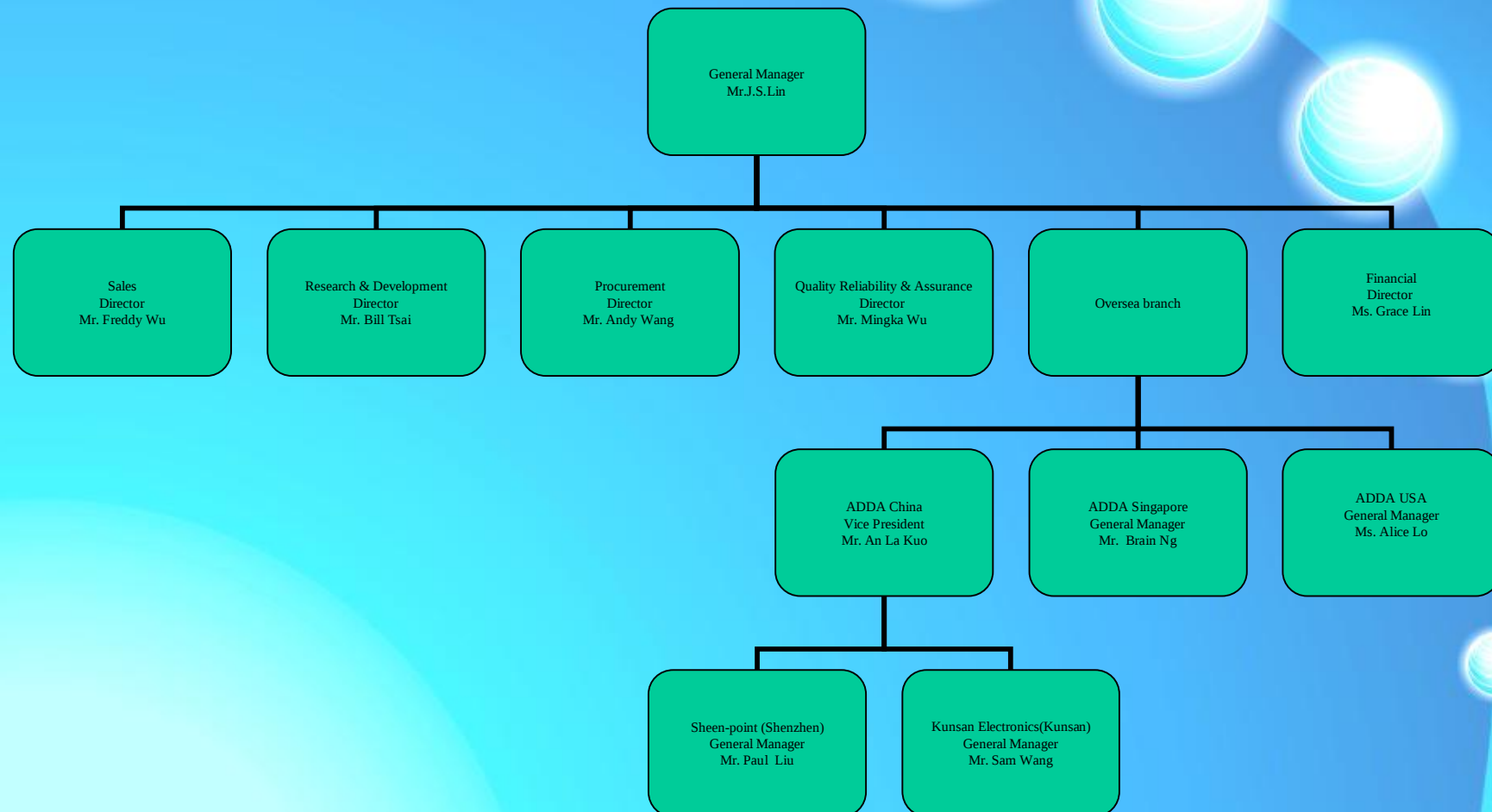
1-1. Company Milestone



1-2. Organization



1-2. Organization [Fan]

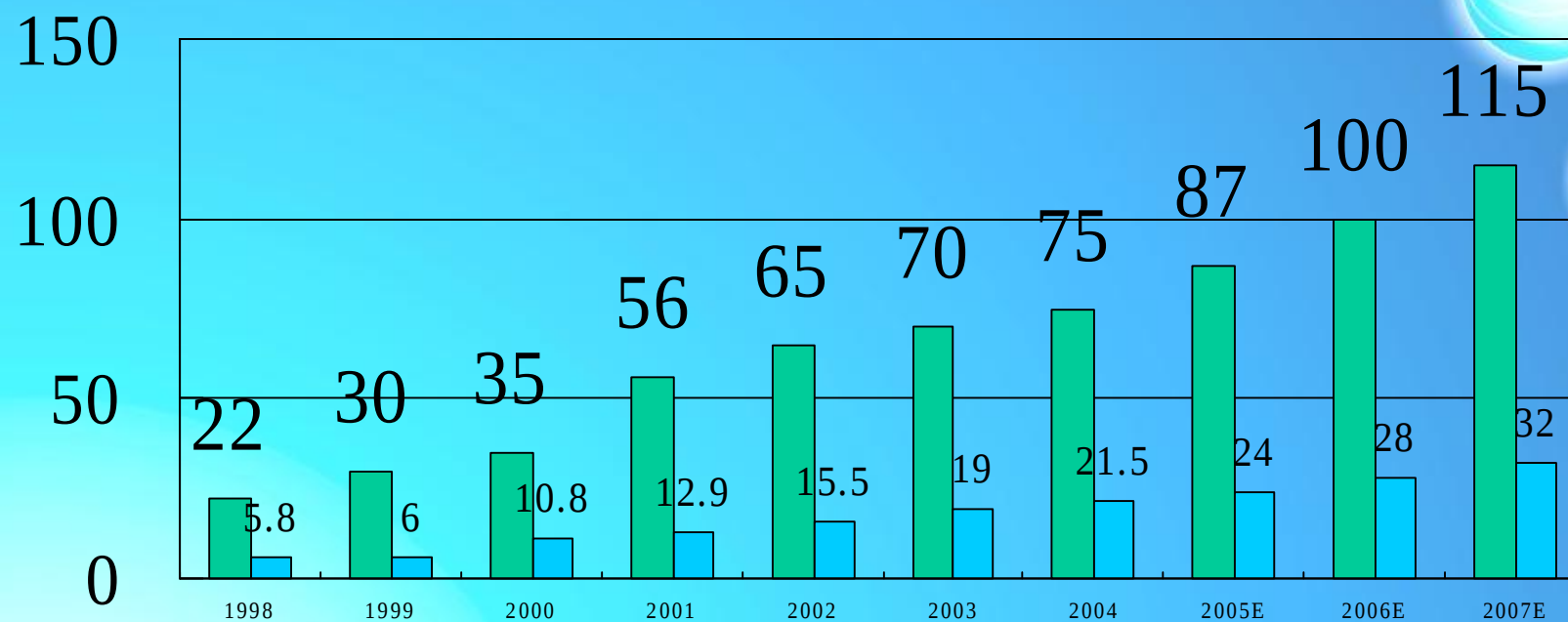


1-3. Capital / Sales

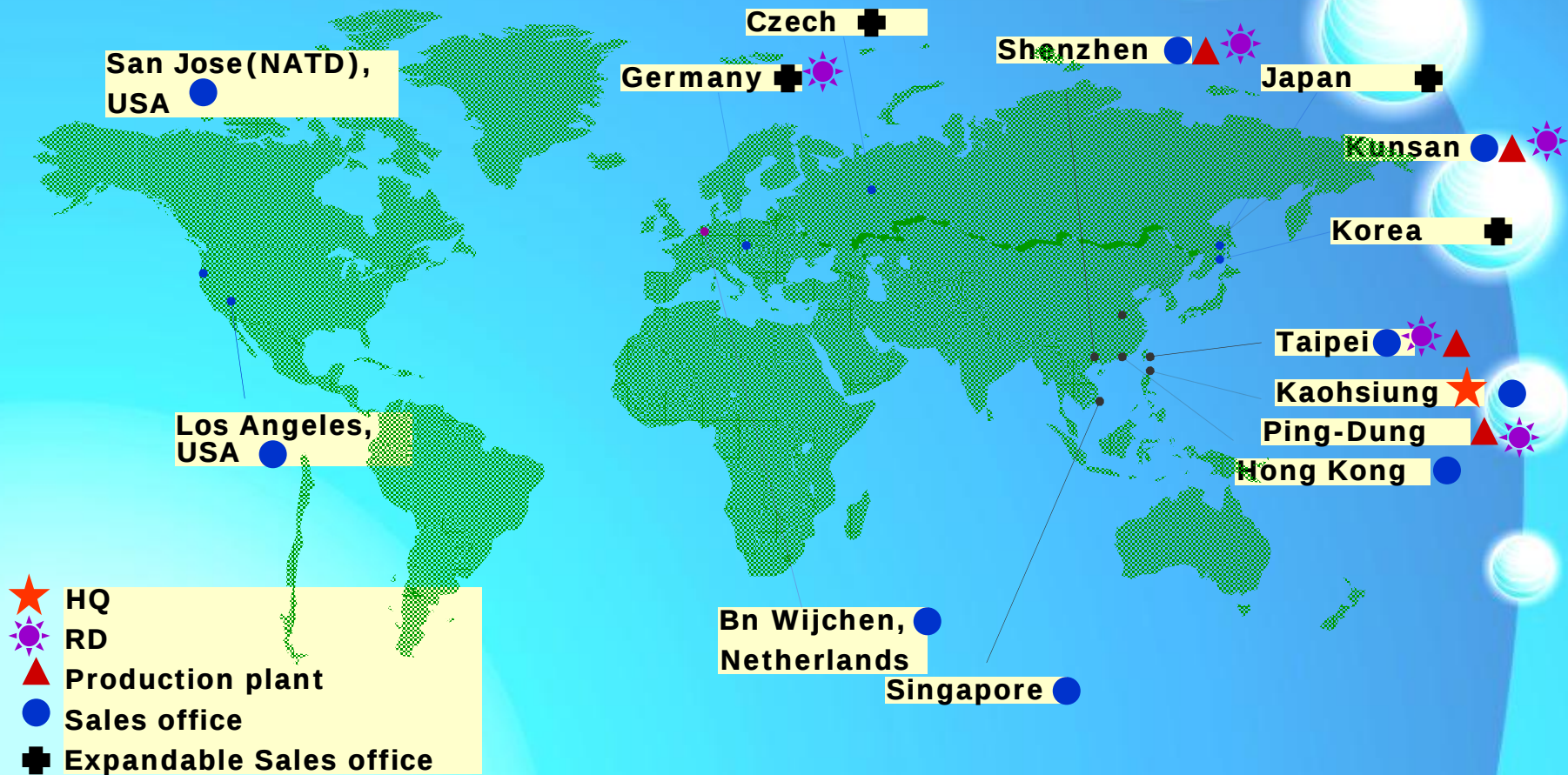


UNIT:US\$(Million)

Capital Turnover



1-4. Global Operation Network



1-5. Factory Status



Capacity expand from 6,000K/M(2003) to 7,000K/M(2004)

Factory	Taiwan#1	Taiwan#2	China#1	China#2	China#3	China#4
Location	Ping-Tung	Taipei	Shenzhen	Shenzhen	Kunsan	Kunsan
Employee	300	40	1600	400	400	300
Plant Size	1,750m2	1,000m2	9,600m2	5,500m2	12,000m2	5,000m2
Products	Mini DC Fan N/B Fan	Thermal Module Cooler	DC/AC Fan VGA Fan	DC Fan Cooler Heat Sink	DC/AC Fan N/B Fan Cooler	DC/AC Fan
Monthly Capacity	1,200K 7 Lines	80K 2 Lines	4,000K 10 Lines	2,000K 8 Lines	1,000K 6 Lines	800K 6 Lines
Type of DC fan manufacturing	Back-end Assembly	N/A	Front-end manufacturing + Back-end assembly	Back-end Assembly	Front-end manufacturing + Back-end assembly	Front-end manufacturing + Back-end assembly
Certification (Approved year)	ISO9002(1994) ISO9001(1995) QS9000(2000) ISO14001(2001)		ISO9002(1997) ISO9001(2002) ISO14001(2001)	ISO9001(2002)	ISO9001(2003)	ISO9001(2003)



1-6. China Experience



§ Leveraging its mass production expertise, cost control management and China's low labor cost (which is running at 1/8 of Taiwan's), ADDA now operates the cost competitive fan plant in Shenzhen / Kunsan.

§ Coming from the same Chinese culture and language background, ADDA finds itself in an advantageous position running a successful China operation.

§ ADDA stands to reap the massive China market potential with its proprietary managerial know-how in China.



1-7. RD Equipment / System



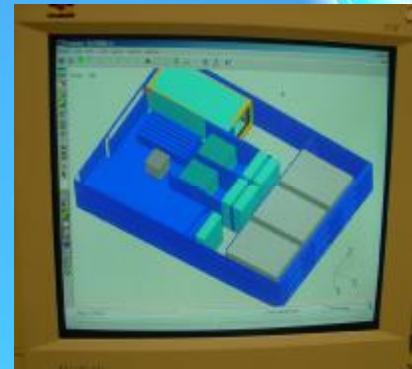
A. Thermal R&D Lab (Taipei)



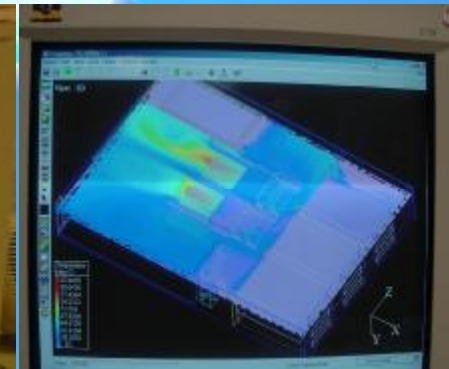
Humi./Temp.
Chamber



Wind Tunnel



Flotherm



IR



Pressure Simulator



Thermal Test



Data Logger



B1. Fan R&D Lab (PingTong HQ)



CNC



Acoustic Chamber



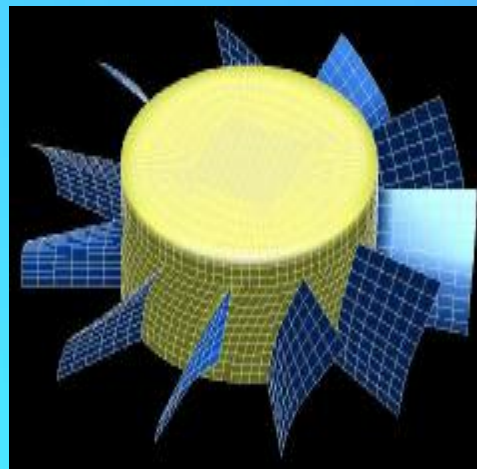
Acoustic Chamber



A.F.D.C



PROTEL



Star-CD

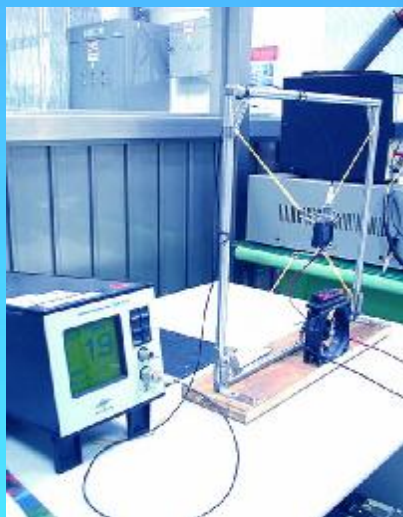


Wind Tunnel



B2. Fan R&D Lab (PingTong HQ)

ADDA



Vibration testing system



Balance system



Oscilloscope



PCB NC system



FAN MTTF Burning system



Gauss test system

ADDA



C. Lab in Shenzhen (China)



Wind Tunnel



Thermal Measure Device



Mash Welder



Vibration Test



Clip Force Measure Device



Acoustic Chamber



1-8. Products Introduction



Dual Brand Strategy

Completed fan product portfolio offering the appropriate bearing fan with motor protective circuit and levels from dual brands to meet customer requirements

§ ADDA brand

High quality , High performance and competitive price

§ BERFLO brand

Usable quality , Usable performance but lower price;
Mainly apply to domestic sales of Mainland China.



1-8. Products Introduction

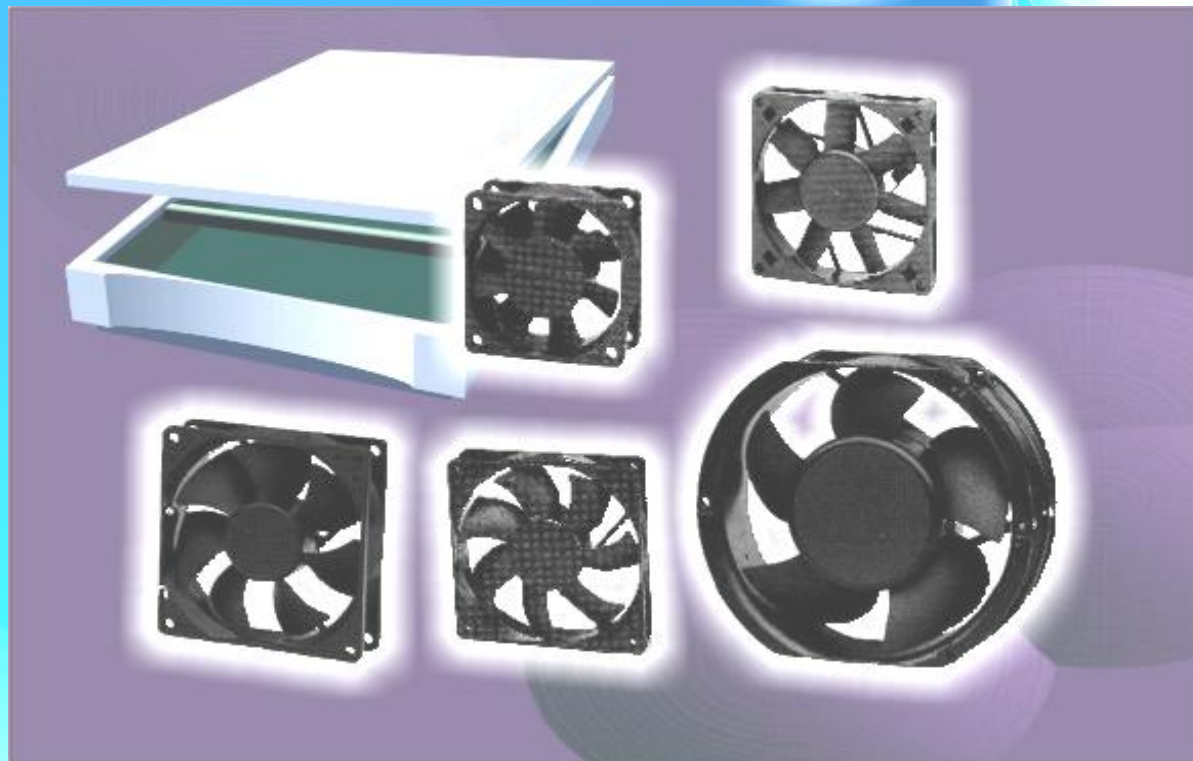
Different bearing fan providing



	Sleeve	Hypro	1B1S	Ceramic	2BB	FDB
Release Year	1989	1992	1989	2005	1989	2002
Cost Range	Lowest	Lower	Middle	Middle	Higher	Higher
Noise (Only Rotor /AD9225 / 3100 rpm / 0.3m)	Higher 26dB(A)	Middle 25dB(A)	Highest 27dB(A)	Middle 25dB(A)	Lower 24.4dB(A)	Lowest & Stable 21.3dB(A)
Life Expectancy (Hours/L10/ 40°C)	31,000	40,000	50,000	60,000	50,000	60,000
Operation Temperature	Under 70°C	Under 70°C	Under 70°C	Under 90°C	Under 90°C	Under 90°C
Recommendation	Easy to Oil Leakage	Easy to Oil leakage It should be protected by protective structure.	Noisy	Replace 1B1S		Replace 2BB
Apply to	Power Supply, Case fan	N/B, Case Fan, VGA cooler	N/B, Hub, CPU cooler, Projector	CPU cooler, Server,	N/B, Projector, PDP-TV, VGA cooler, Server	PDP-TV, N/B, Projector



A. DC Brushless Fan



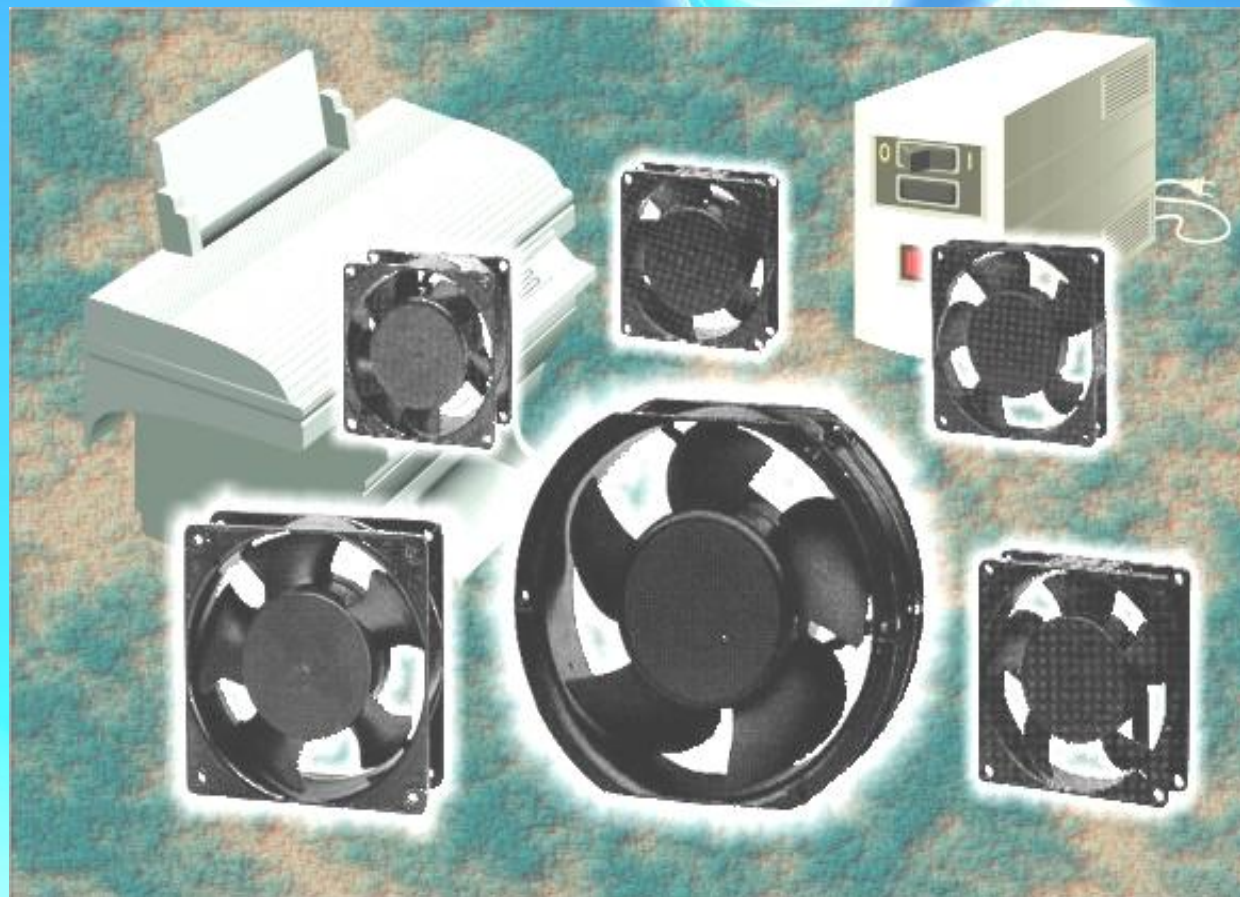
Dimension: From 15mm to 170mm

Voltage: 5 / 12 / 24 / 48VDC(option)

Application: IT,NB,OA,Network,Telecom.

20/25/30/40/50/60/70/80/92/120mm

B. AC Brushless Fan



Dimension: From 80x25mm to 172x150mm

Voltage: 110 / 220 VAC

Application: Industry, Equipment, Power.

Remark: Dual voltage (VAC220v à VDC12v)

C. DC Blower Fan



Dimension: From 20x7mm to 120x32mm

Voltage: 5 / 12 / 24 / 48 VDC (option)

Application: Server, NB, Instrument.

D. VGA Cooler



FX 5700 Ultra



Geforce Series



FX 5900



Radeon 9200



Geforce Series



Radeon 9800

Re:"NVIDIA","ATI" are trademarks or registered trademarks are the property of their respective owners.

E. Desktop CPU Cooler



2002
Intel / C60
INTEL P4 -478



2002
Intel / C68
INTEL P4-478



2002
Intel / C38
INTEL P4 -478



2003
Intel / E63
INTEL LGA - 775



2004
Intel / F70
INTEL LGA - 775



2002
AMD / D20
AMD Athlon XP



2003
AMD / E32
AMD Athlon 64

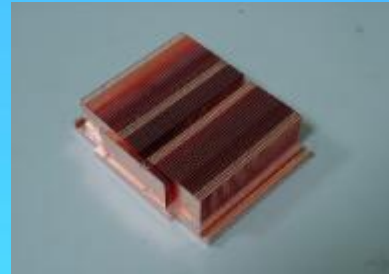


2004
AMD / F40-2
AMD Athlon 64

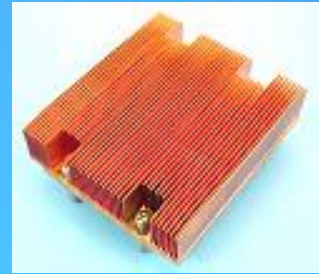
F. Server solution



2002
Intel / B80
INTEL PRESTONIA



2002
Intel / E81L
INTEL PRESTONIA



2003
Intel / E83
INTEL NOCONA



2004
Intel / F87
INTEL NOCONA

G. Mobile thermal module



2002
INTEL Mobile
P4



2002
INTEL D/T
P4-478



2003
INTEL D/T
P4-478



2002
INTEL Mobile
Dothon

1-9. Market/Our customer

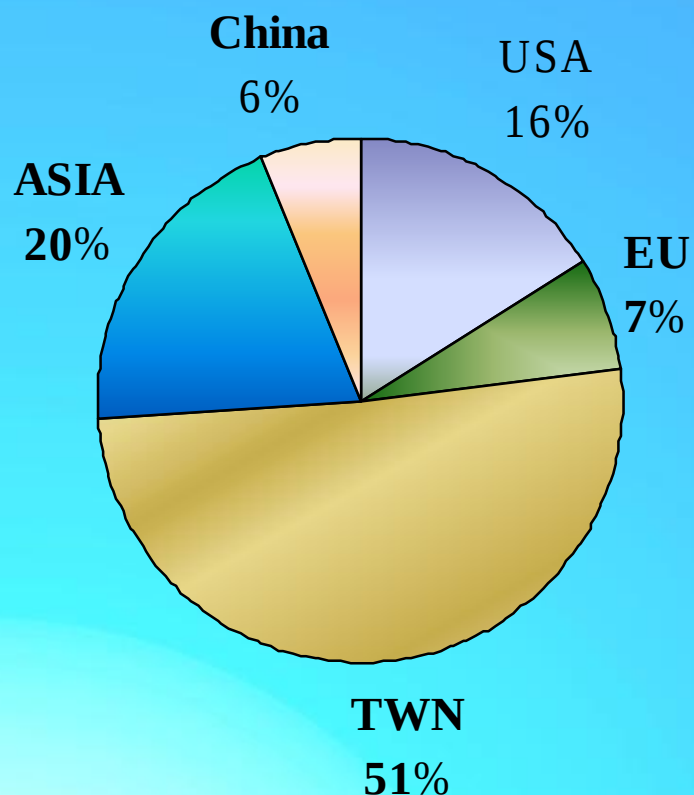


A. Main customers list

Region	Customer	Applied Industry
Asia Pacific	Sony, Sharp ,Hitachi, Samsung, Founder Tech, LG, Creative Lab, Foxconn, Legend, NMB	Audio, Copier, Printer, Medical equipment,VGA, SPS, PC,PDP-TV,LCD-TV
Taiwan	Acer, Asus, GigaByte , Mitac Compal, Wistron , MSI, BENQ Delta, Lite-on, AVC, Quanta	PC, N/B,VGA card, SPS, Server, Projector , LCD-TV
Europe	3 Com, Siemens, Infocus. VOLVO	Network, Industry, Projector. Automobile
USA	Microsoft, Dell, HP, Xerox, Nvidia, GM ComairRotron, ATI	Xbox, PC Server, Copier, Printer, VGA card, Telecom, Automobile

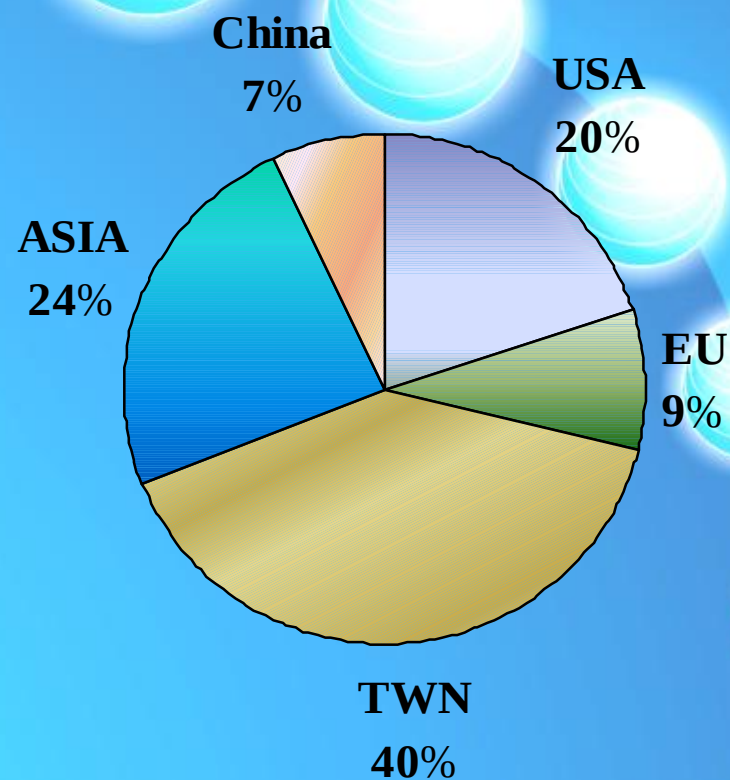


D. Sales breakdown by geography



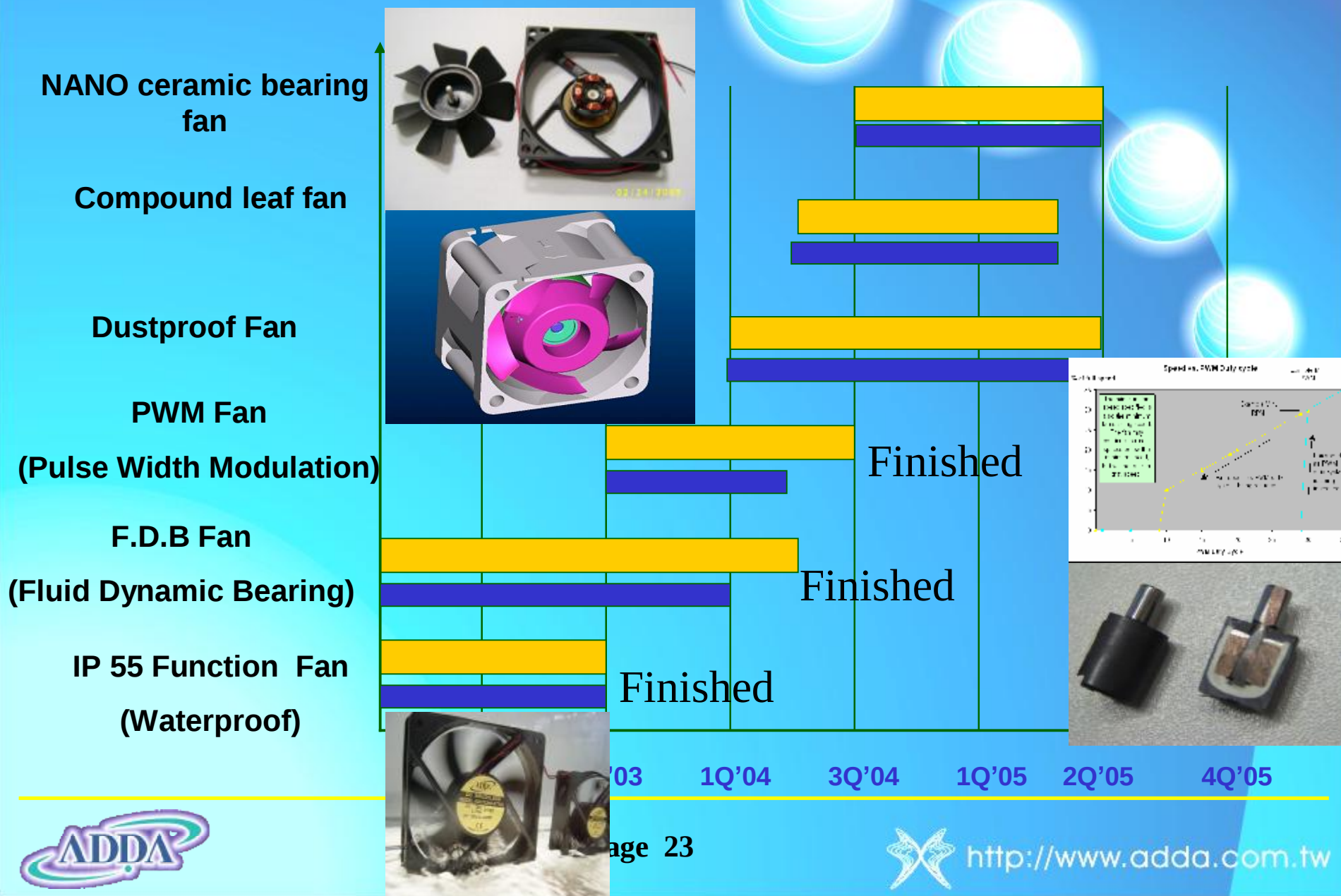
2003

V.S.



2004

1-10. Fan technology roadmap



Contact us



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