

PHILIPS

Lighting Strategy:

Accelerating profitable growth

Building on strength in existing businesses

Shaping the future in new business areas

Theo van Deursen

CEO Philips Lighting

Lighting analysts' day

September 20, 2006

Agenda

- Philips Lighting: accelerating profitable growth
- Building on Strength
 - Growth in emerging countries
 - Business to business
 - Energy saving solutions
- Shaping the Future
- Profitable growth via key business drivers
- Conclusions

Philips Lighting

- Our Mission

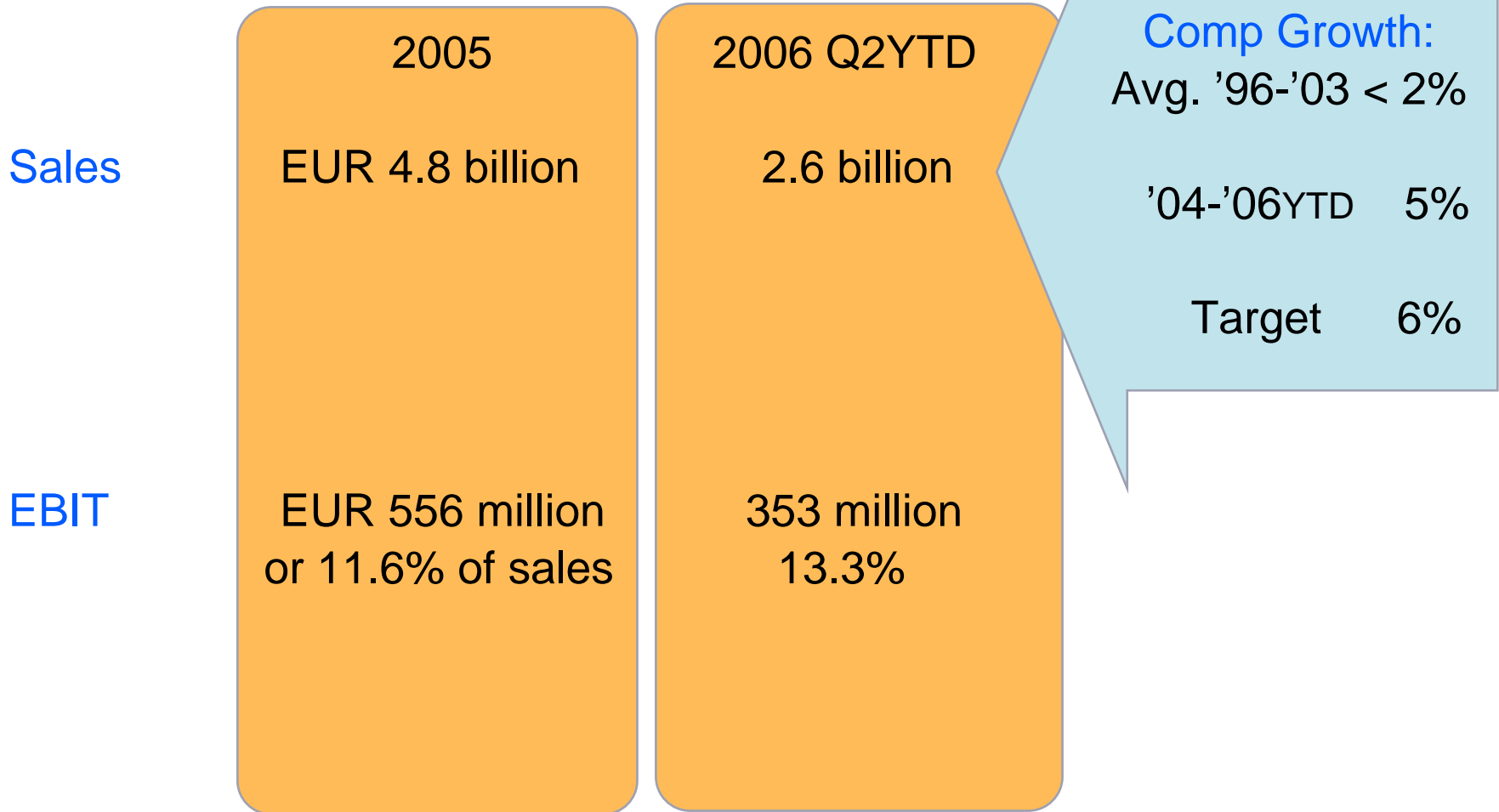
We understand people
...and improve their lives with lighting

- Our Vision

The Clear Leader;
Setting the pace in the lighting industry



Philips Lighting



Philips Lighting *Key Product Areas*

Lamps



**Lighting
Electronics**



Luminaires



**Automotive &
Special Lighting
Applications**



**Solid State
Lighting
Modules**



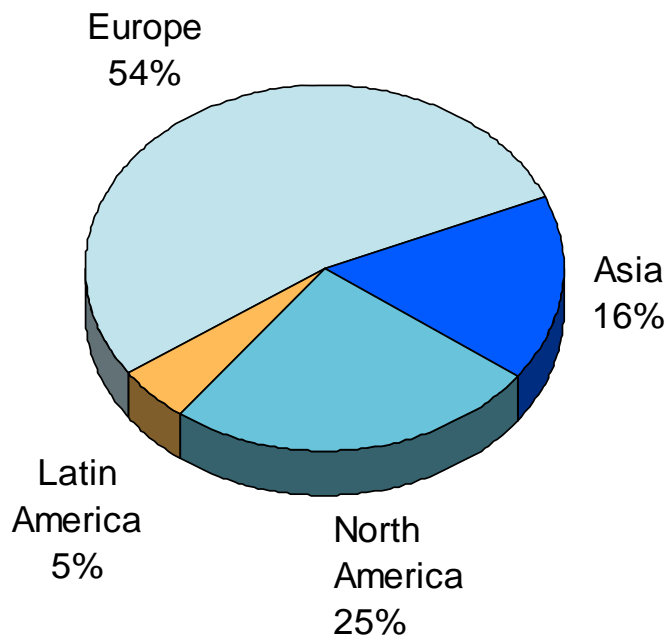
Lumileds



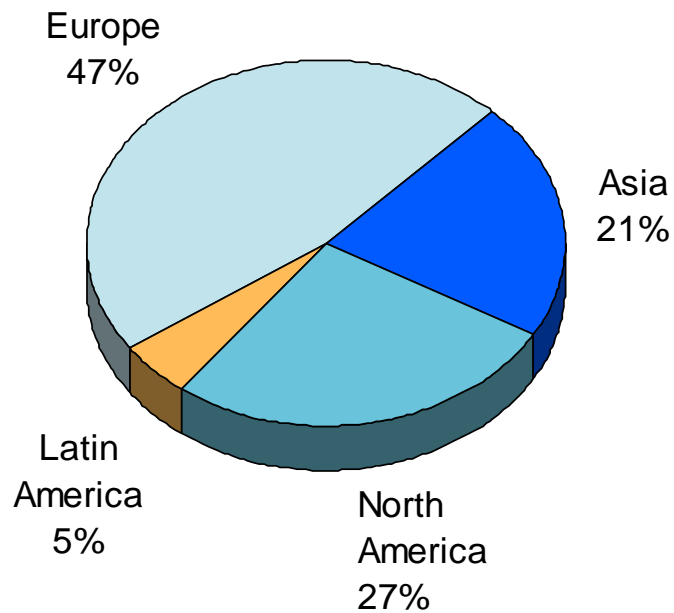
Philips Lighting

2000-2005 Sales distribution by region

2000



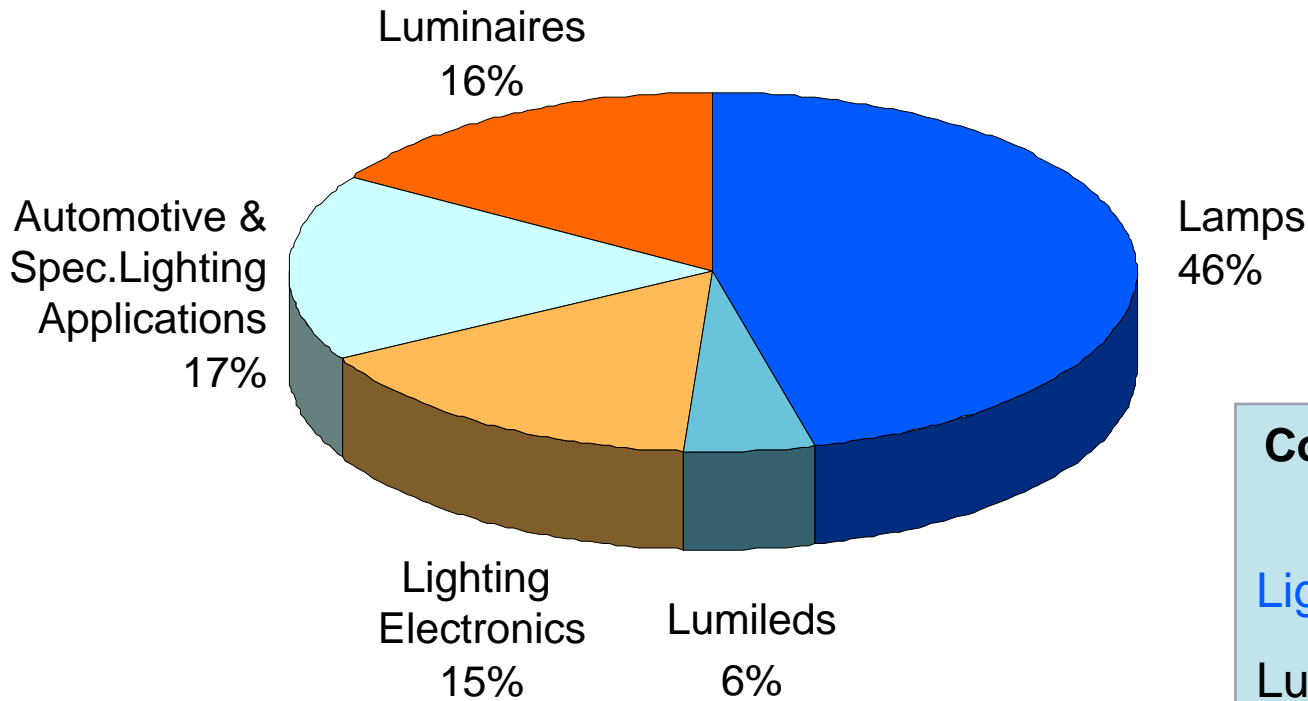
2006 Q2YTD



Philips Lighting

Lumileds: Increases Philips Lighting growth by 1%

2006 Q2YTD



Compar. An. Growth 2004-2006YTD	
Lighting	5%
Lumileds	24%
Combined	6%

Philips Lighting

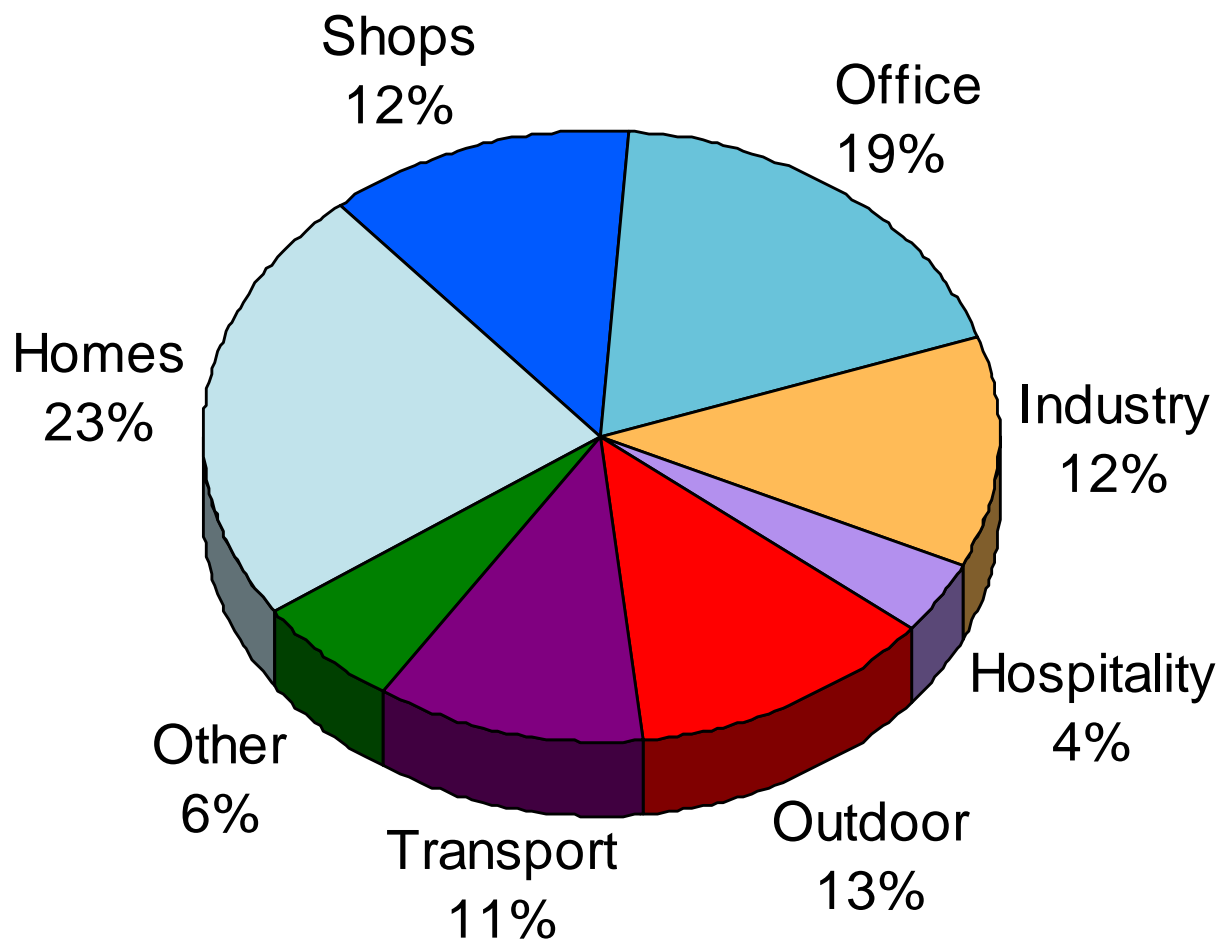
Organic growth with supporting acquisitions

Acquisition of Bodine:

- To complement our portfolio in Lighting Electronics, we acquired Bodine, USA (July 2006)
- Leading player in emergency lighting
- Opportunity for growth in integrated and controllable lighting solutions for use with building management systems
- Sales USD 30 mln, 200 employees

Philips Lighting

Sales distribution by application



Philips Lighting: leading around the world

Value market shares per business per region 2005/2006



Philips Lighting *Strategy*

- Driving profitable growth via
- Building on strength
 - In emerging countries
 - In Business to Business
 - With energy saving solutions
- Shaping the future
 - In display applications
 - With Solid State Lighting (LEDs, OLEDs, lasers and systems)

Philips Lighting *Strategy*

- Building on strength, Shaping the future via
- Key business drivers
 - End user driven innovation, building on technology leadership
 - Marketing excellence (Customer focus, Brand, Market introduction)
 - Supply excellence (Sourcing, Manufacturing, Delivery)
 - Control of costs and assets

on basis of:

- Committed and competent people, living our values
- A learning organization (continuous improvement)

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Building on strength

Sales growth in emerging markets

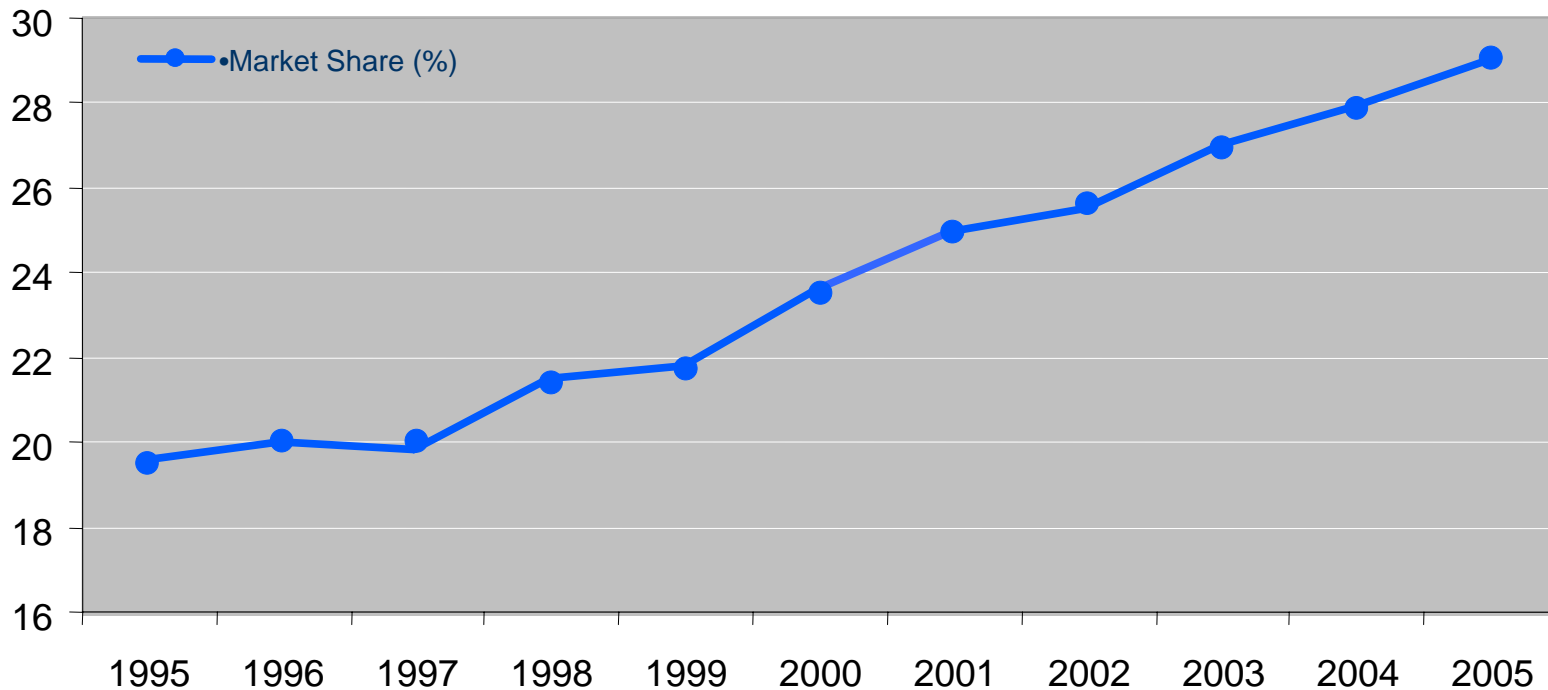
2005 vs 2004 comparable growth	
Latam	4%
C&E Europe	11%
China/HK	11%
India	14%
Asean	16%
Other emerging countries	22%

Lamps market share 2005
30%
32%
14%
37%
35%

The sales in emerging markets represent
31% of Philips Lighting sales

Building on our Strength

Market Share Development of Automotive business 1995-2005



Building on strength

Strength in B2B general lighting application segments



Shops



Offices



Healthcare



Industry



City Beautification



Road



Sports & Open Areas

Building on strength

Shops - Enhancing the shopping experience



- Strengths:**
- Flexible ambience-creating systems
 - Lighting design capabilities
 - Dedicated international key account management

Building on strength

City Beautification - Improving the quality of urban life



- Strengths:**
- Dynamic and energy saving solutions
 - Architectural lighting design capabilities

Building on strength

Offices - Enabling well-being and performance



Strengths:

- People oriented dynamics (day light rhythm)
- Energy saving lighting solutions/controls
- Turnkey projects with tailor-made product solutions

Building on strength

Industry - Enabling well-being and productivity



Strengths:

- Application knowledge
- Energy-efficient solutions
- Dedicated International key account management

Building on strength

Roads - Creating safety and comfort



- Strengths:**
- Energy-efficient solutions, (e.g. Cosmopolis)
 - Reducing light pollution
 - Leading global player in road lighting

Building on strength

Healthcare - Ambient Experience



- Strengths:**
- 'One-Philips' approach (e.g. Philips Medical Systems)
 - Ambience-creating design capabilities
 - Project management

Building on strength

Sport: optimal experience also in front of your TV

Olympic games 2004 Athens
28 out of 33 venues (85%)
with Philips Lighting



Fifa Worldcup 2006 Germany
8 out of 12 venues with Philips



Olympic games
Beijing 2008
Philips Lighting
taking the lead



Building on strength

Demand for energy saving solutions

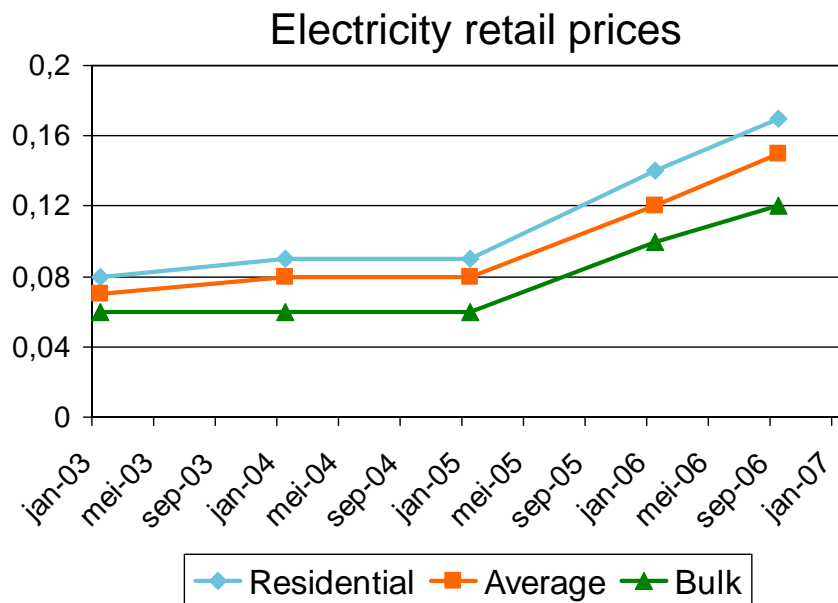
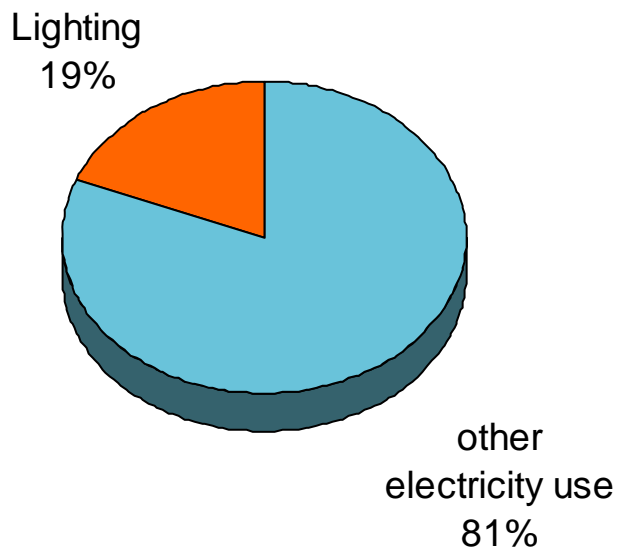
- Different regional accents on need for energy saving:
 - Scarcity (Americas)
 - Booming demand (Asia Pacific)
 - Climate change/Kyoto (Europe; global)
 - Oil prices (global)



Building on strength

Lighting is important part of energy consumption

- Lighting 19% of world-wide electricity consumption
- Electricity prices are rising fast
- Electricity consumption is rising fast

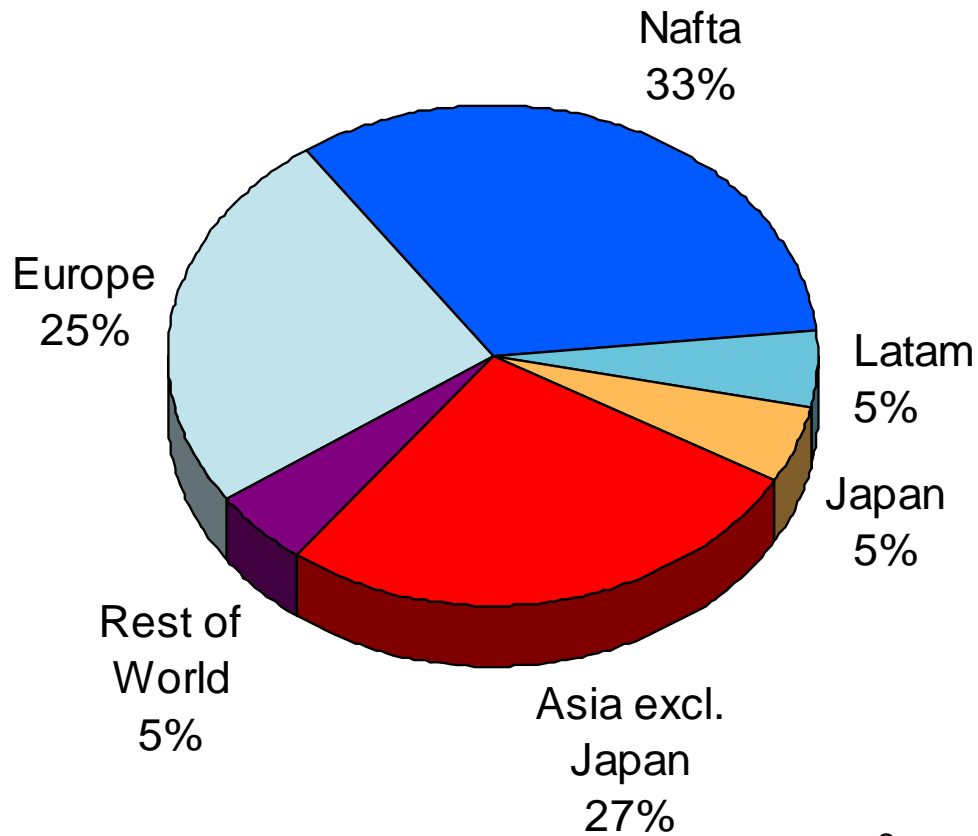


Source: Elektrabel

Building on strength

Lighting Electricity Consumption

Total world consumption 2005: 2550 TWh



Source: International Energy Agency (IEA)

Building on strength

Total Europe: untapped potential of existing lighting technology

Today's potential savings

- 13.4 billion Euros in Electricity costs/year
(20% savings @ EUR 10 cts/KWh)
- 59 million tons of CO₂ emissions/year
 - Equivalent of more than 2.9 billion trees
- More than 284 million barrels of oil/year
- Output of more than 67 power plants (@ 2TWh/yr)



Building on strength

Worldwide: untapped potential of existing lighting technology

Today's potential savings
















- 51 billion Euros in electricity costs/year
(20% savings @ EUR 10 cts/KWh)
- 273 million tons of CO₂ emissions/year
– Equivalent of more than 13.6 billion trees
- More than 1080 million barrels of oil/year
- Output of more than 255 power plants
(@ 2TWh/yr)



Sources: International Energy Agency (IEA)
World Resource Institute (WRI)

Building on strength

For each customer segment an energy efficient lighting solution exist already today

Area of lighting	Energy saving	CO2 savings per lamp per year
Road lighting	HPL  57%   CosmoPolis	109 kg CO ₂
Shop Lighting	Halo  80%   CDM	115 kg CO ₂
Office & Industrial Lighting	TL8  61%   TL5	77 kg CO ₂
Home Lighting	GLS  85%   CFLi	34 kg CO ₂
LEDs	GLS  82%   LED	34 kg CO ₂

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- Philips Lighting: accelerating profitable growth
- Building on Strength
- Shaping the Future
 - Display: LCD backlighting & projection
 - Solid state lighting
- Profitable growth via key business drivers
- Conclusions

Shaping the future – Display applications

Growth in LCD backlighting

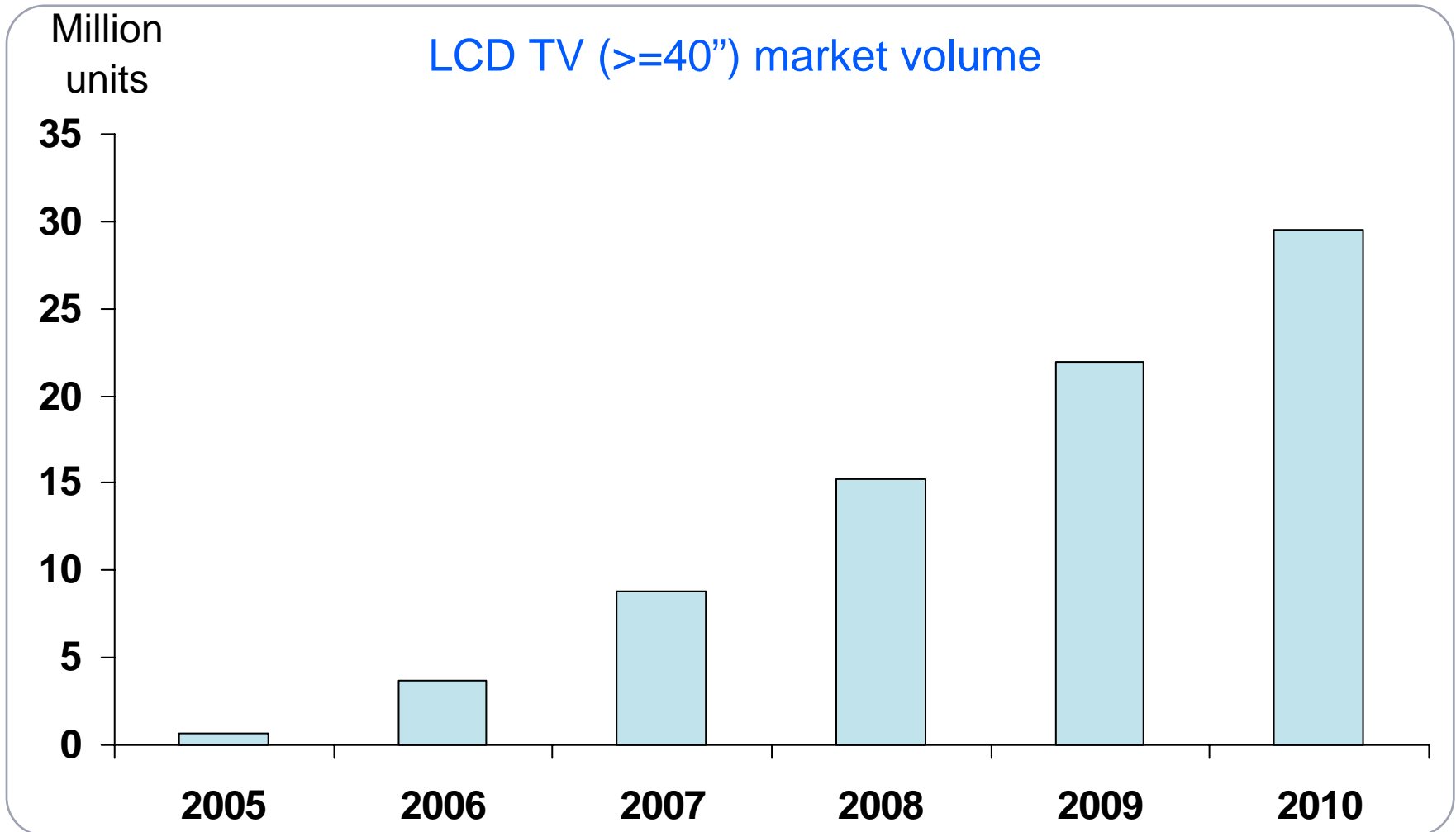
Philips Aptura for LCD backlighting systems,
 New fluorescent solution for LCD
 Creating a new viewing experience

- Wider viewing angle
 - Better contrast
 - Less motion blur
-
- Launched Q1 2006
 - Philips ClearLCD TV Video Innovation of the year '05-'06 (EISA)



Shaping the future – Display applications

The LCD TV market is growing fast



Shaping the future – Display applications

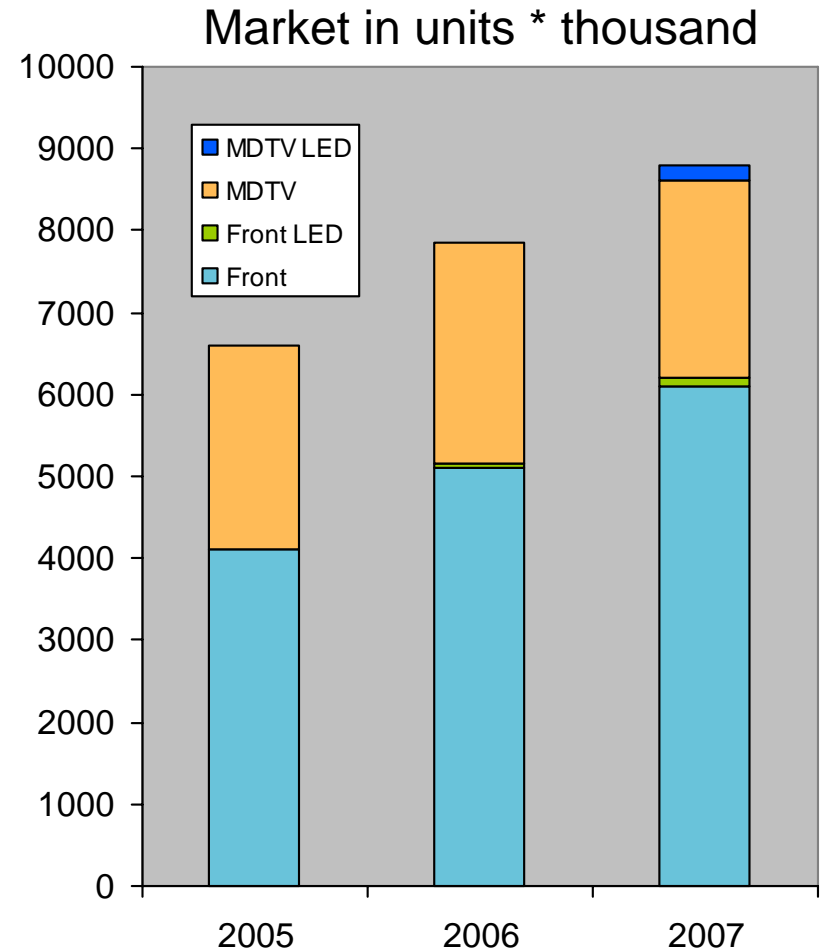
Digital projection



Digital Rear Projection TV



Digital Front Projection



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Shaping the future – Solid State Lighting

A brief history of (white) light sources



Open wood fire



Oil



Filament



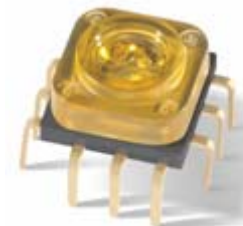
Gas discharge



Inorganic LED

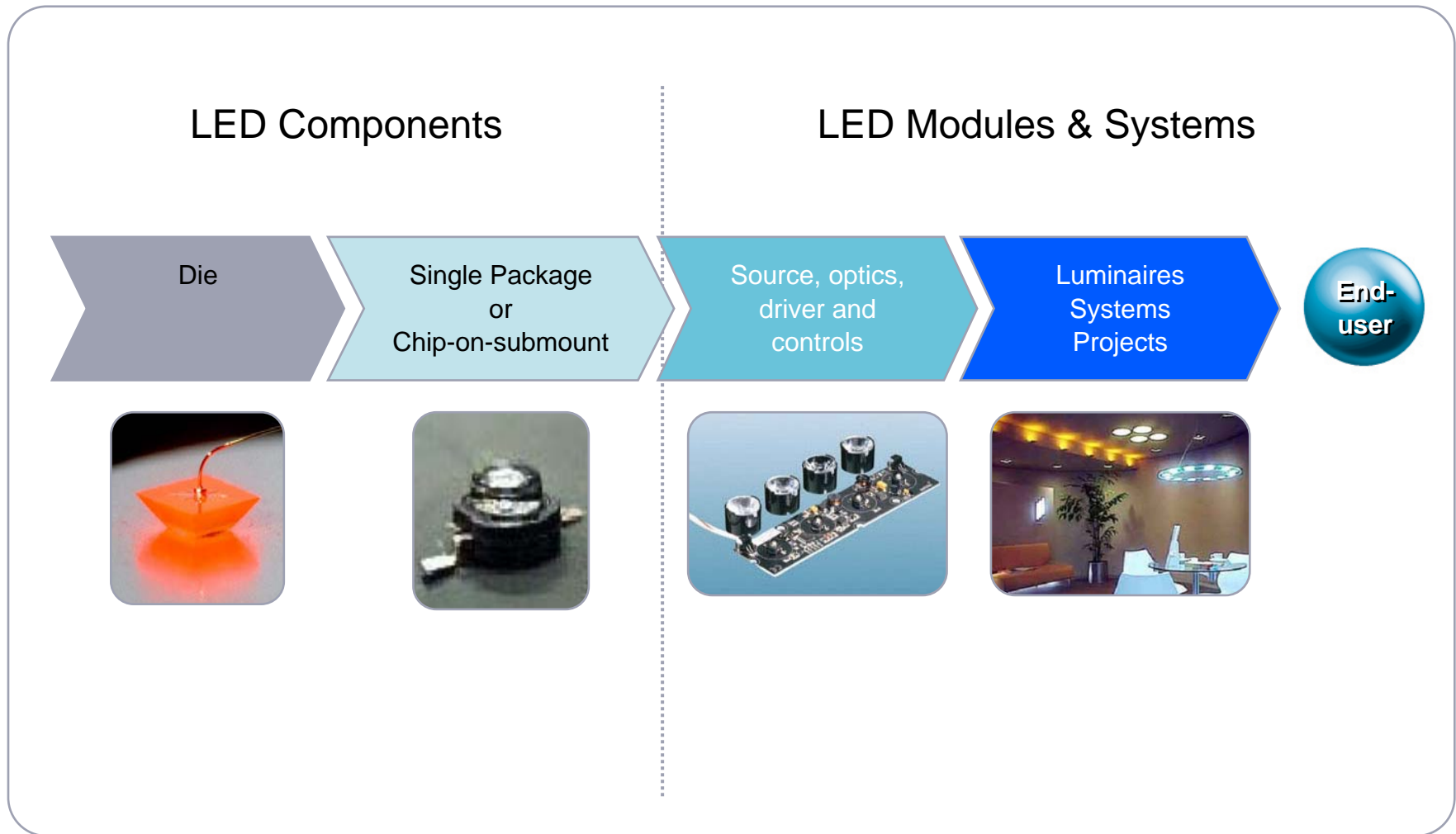


Organic LED



Solid State Laser

The in-organic Solid State Lighting value chain



Shaping the future – Solid State Lighting

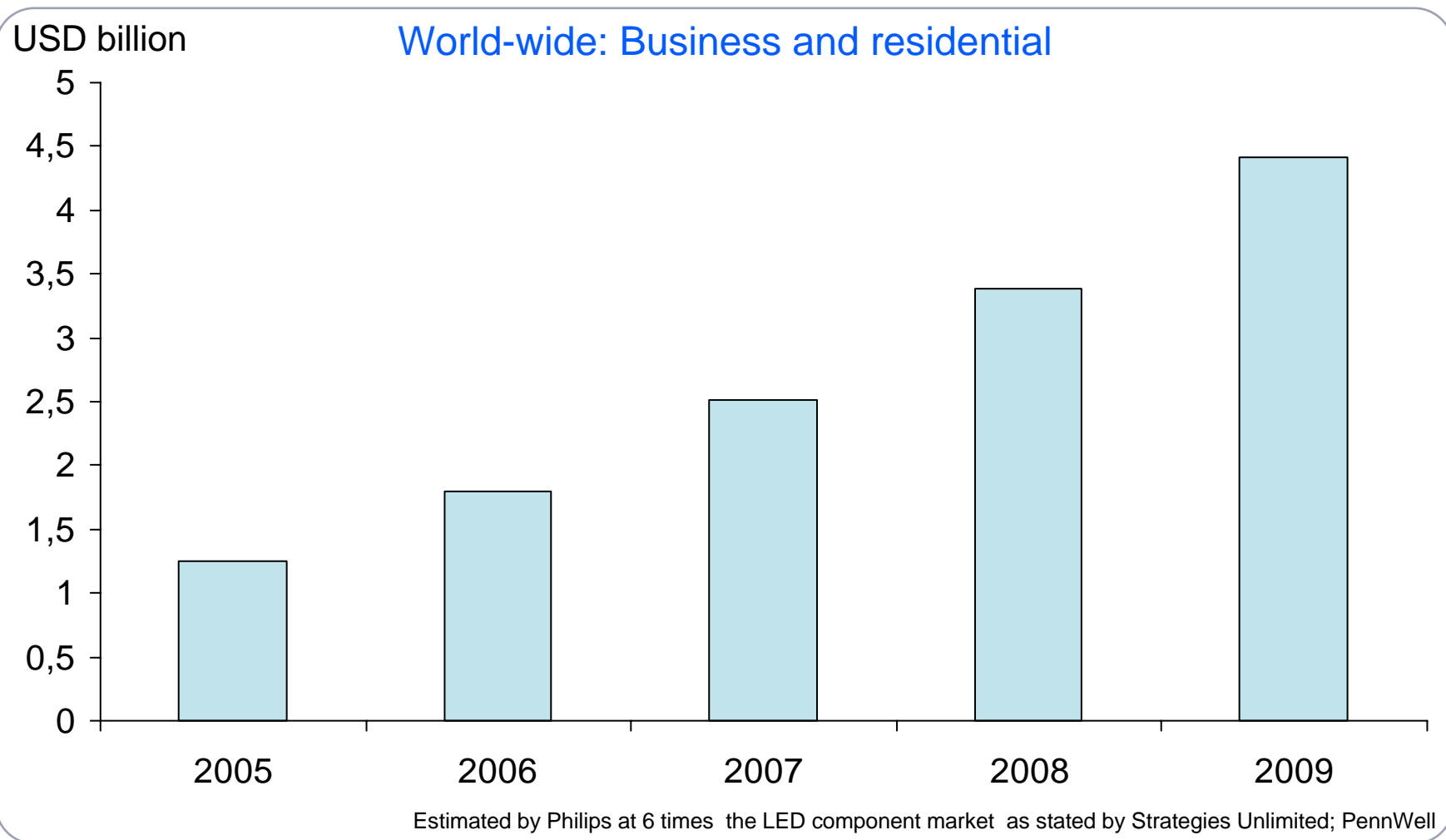
Lumileds' leadership in high power in-organic LEDs

- JV established in 1999 (initial Philips investment approx. USD 90 mln)
- Philips increased ownership to 96.5% in November 2005 (additional investment approx. USD 950 mln)
- Industry leader in high power LEDs (LUXEON platform) in all colors and white



Shaping the future – Solid State Lighting

The In-organic LED system illumination market



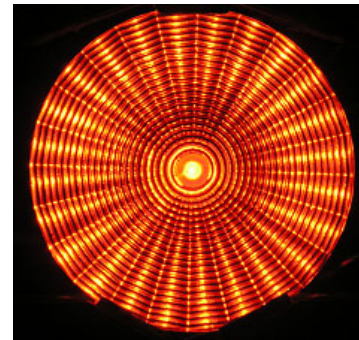
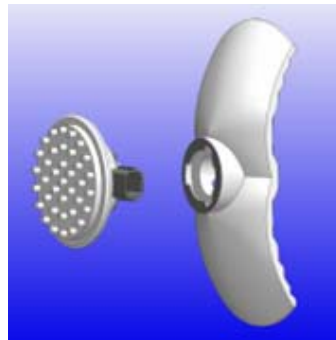
Shaping the future – Solid State Lighting

Modules: To create breakthroughs for LED adoption in cars

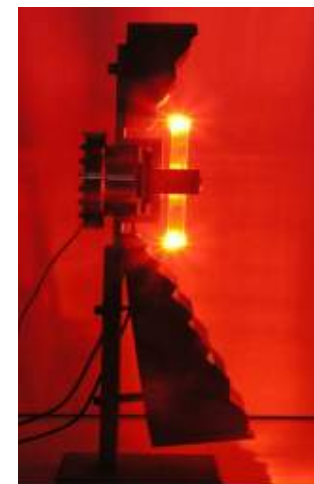
Drive down integral cost



Create opportunities for differentiation



Example:



Shaping the future – Solid State Lighting

Modules: Retrofit solution for Freezer Lighting

Currently being developed:

- Up to 60% lower energy use
- Longer life, Over 6 years @ 24/7
- No mercury, lead



Leds:



TL:



Freezer Lighting Solution

Shaping the future – Solid State Lighting

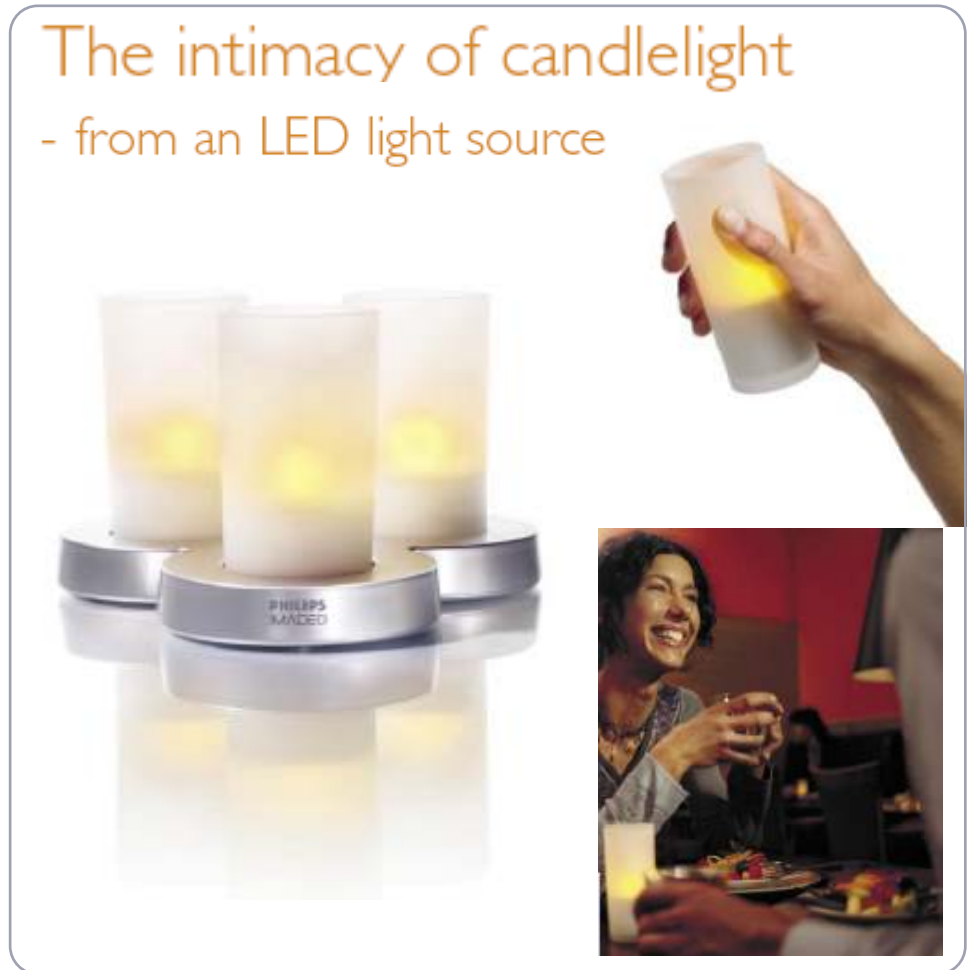
Modules: Retrofit Applications



Shaping the future – Solid State Lighting

To create atmosphere at home: IMAGEO

- Candle-like ambience without flames
- Last more than 24 hours, before recharging
- Rechargeable without taking the LED out of the glass
- Switch on/off by tilting the glass



Shaping the future – Solid State Lighting

Systems: to create Lighting solutions especially in decorative outdoor and shop lighting...



Shaping the future – Solid State Lighting

Systems are crucial in understanding the market

- Gathering vital information about SSL market trends requires footholds in all major markets (regional and application segments)
- Our Luminaire activity creates lighting solutions
- They function as our spearhead in developing the SSL technology
- Enabling us to create optimal products for our customers

Shaping the future – Solid State Lighting *Systems: Market trends*

- Turn Key **Customized SSL projects**,
- **Color dynamics** via Lighting Controls & Programming
- Enabling **architectural effects never possible before**



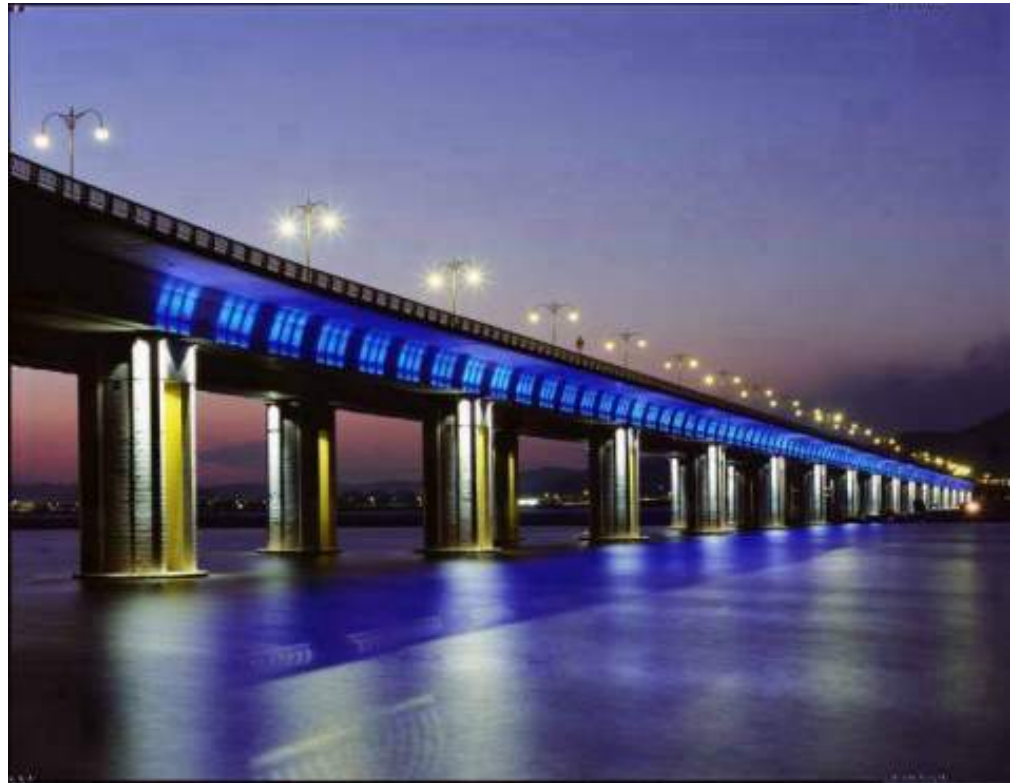


Townhall of Rotterdam, The Netherlands

Shaping the future – Solid State Lighting *Systems: Solid State Lighting Projects*



Glasgow Main Bridge, Scotland



Gupo Grand Bridge, Korea

Shaping the future – Solid State Lighting

Systems: Solid State Lighting Projects



Actura, Hot Water System, Östersund, Sweden

Shaping the future – Solid State Lighting

Systems: Solid State Lighting Projects



Symphony of Light HK Coliseum, SAR Hong Kong

Shaping the future – Solid State Lighting

Systems: creating atmospheres in shops

Winter



Spring



Summer



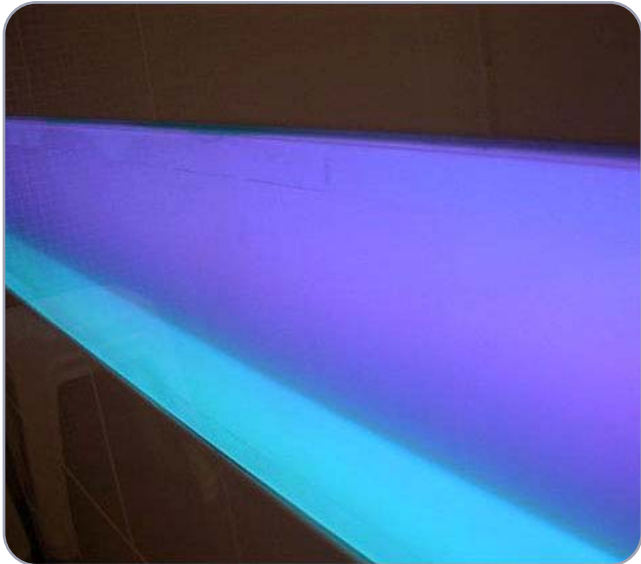
Autumn



Demo Philips Lighting application centre Eindhoven

Shaping the future – Solid State Lighting Systems: *Creating a Bathroom experience...*

Tiles



Bath



Shower



Demo in Philips Lighting Application Centre Eindhoven

Shaping the future – Solid State Lighting

We explore new applications

... light in textiles, controlled by SMS messages



IFA, Sept 2005

Activity of Incubator



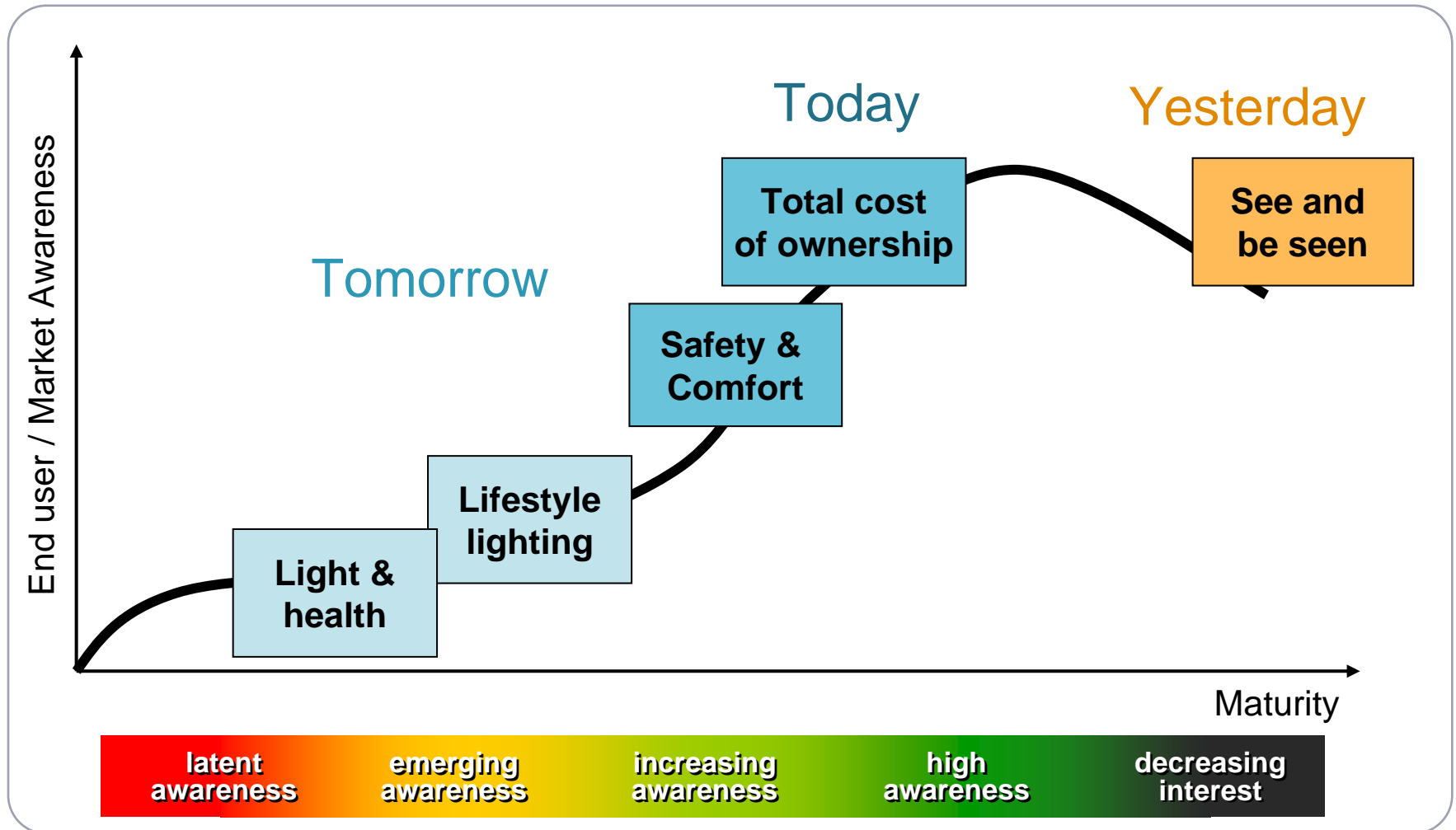
IFA, Sept 2006

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End-user driven innovation, technology leadership

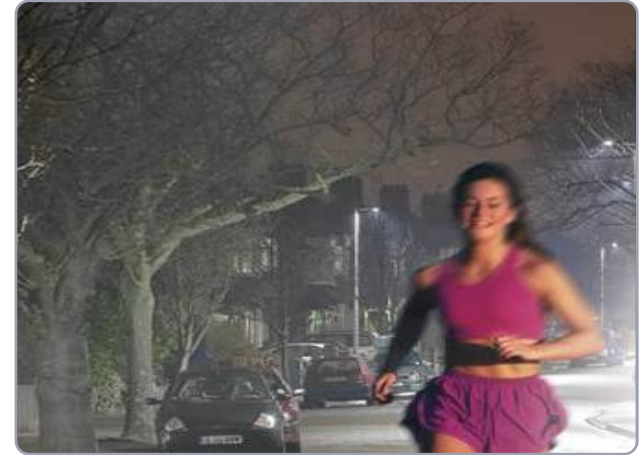
New market themes drive additional growth



End-user driven innovation, technology leadership

Market theme concept: Safety & Comfort

- The same street before and after
- The street with new solution
 - Uses less energy
 - Provides higher quality light
 - Provides greater safety



Redbridge, UK, before



Redbridge, UK, after installation of CosmoWhite (Philips)

End-user driven innovation,
technology leadership
Market theme concept: Safety & Comfort

Safety at night

Comfort:
Car becomes extension of the 'home and office'



End-user driven innovation, technology leadership

Market theme concept: Lifestyle lighting



End-user driven innovation, technology leadership

Market theme concept: Light & Health



Water purification

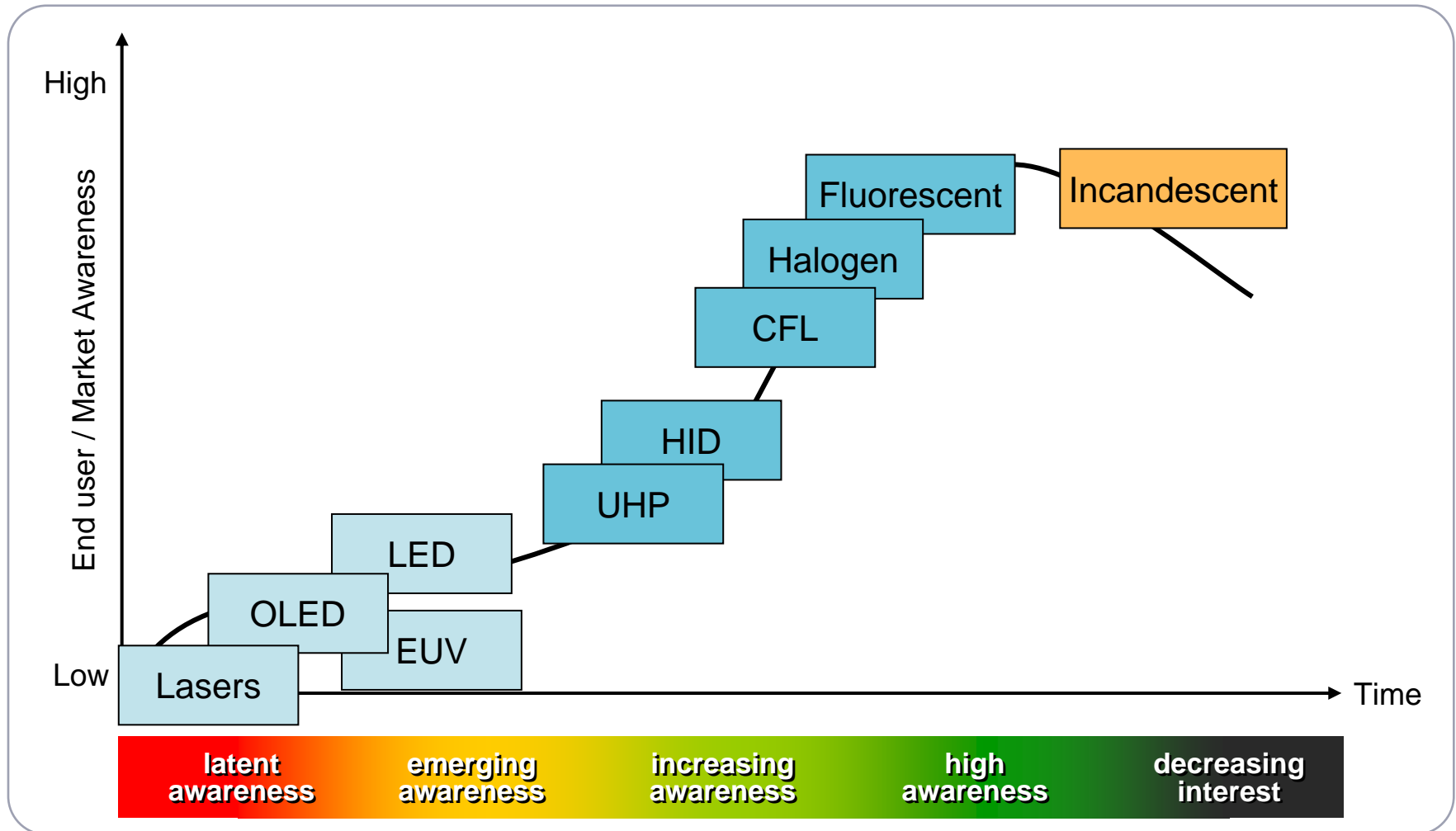


Infra red sauna

UV skincare

End-user driven innovation, technology leadership

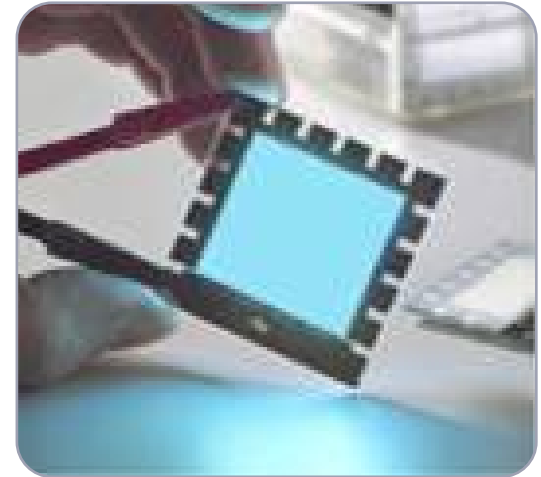
Product-technology innovation will continue to drive growth in Lighting



End-user driven innovation, technology leadership

Organic LEDs

- Potential for large area light sources
- Consortium formed with a.o. BASF (materials) aimed to give Europe leading position
- Still in research phase
- Pre-pilot production under construction



End-user driven innovation, technology leadership

Lasers

- Develop basic laser technology
 - We acquired initial stake and obtained management control in Cedova, a start-up venture for laser manufacturing

- First volume laser application: movement-sensor
 - Result of Philips Incubator activity
 - Mouse launched with Logitech

- New applications are under development



End-user driven innovation, technology leadership *Philips Extreme Ultra Violet for Next generation Wafersteppers*



First two EUV sources
delivered to ASML

**Co-operation
ASML**

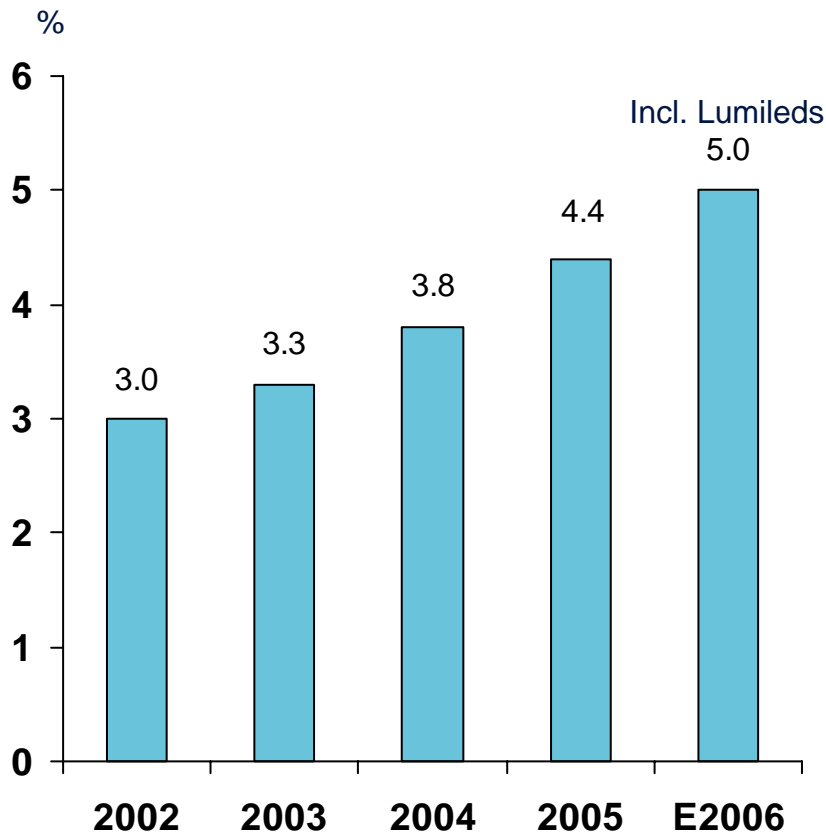


End-user driven innovation, technology leadership

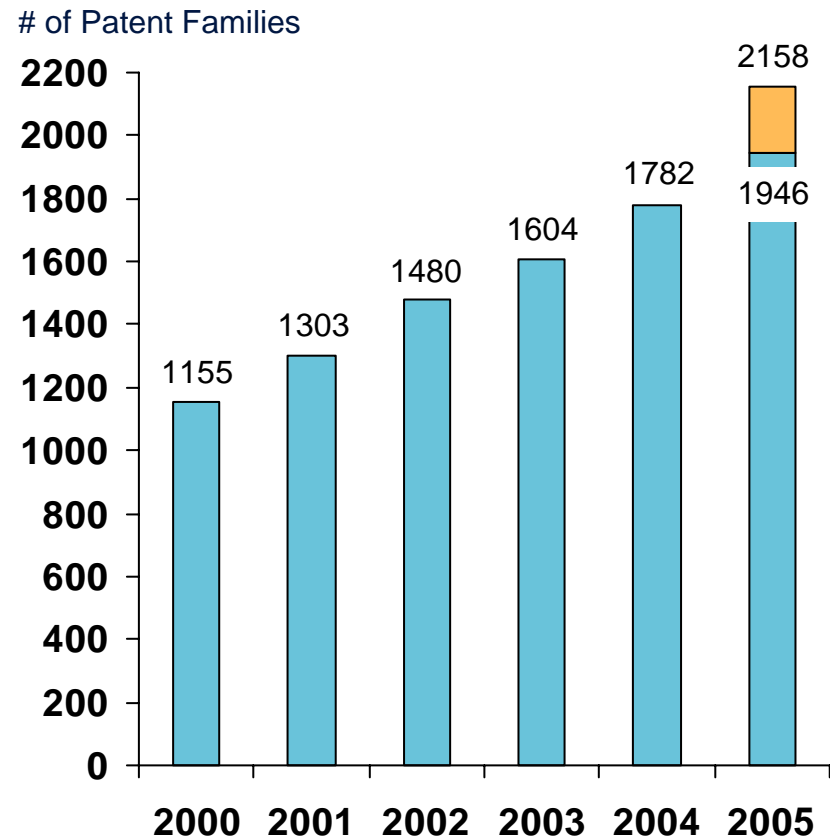
Building on technology leadership:

Development R&D% and size patent portfolio

Increasing R&D effort



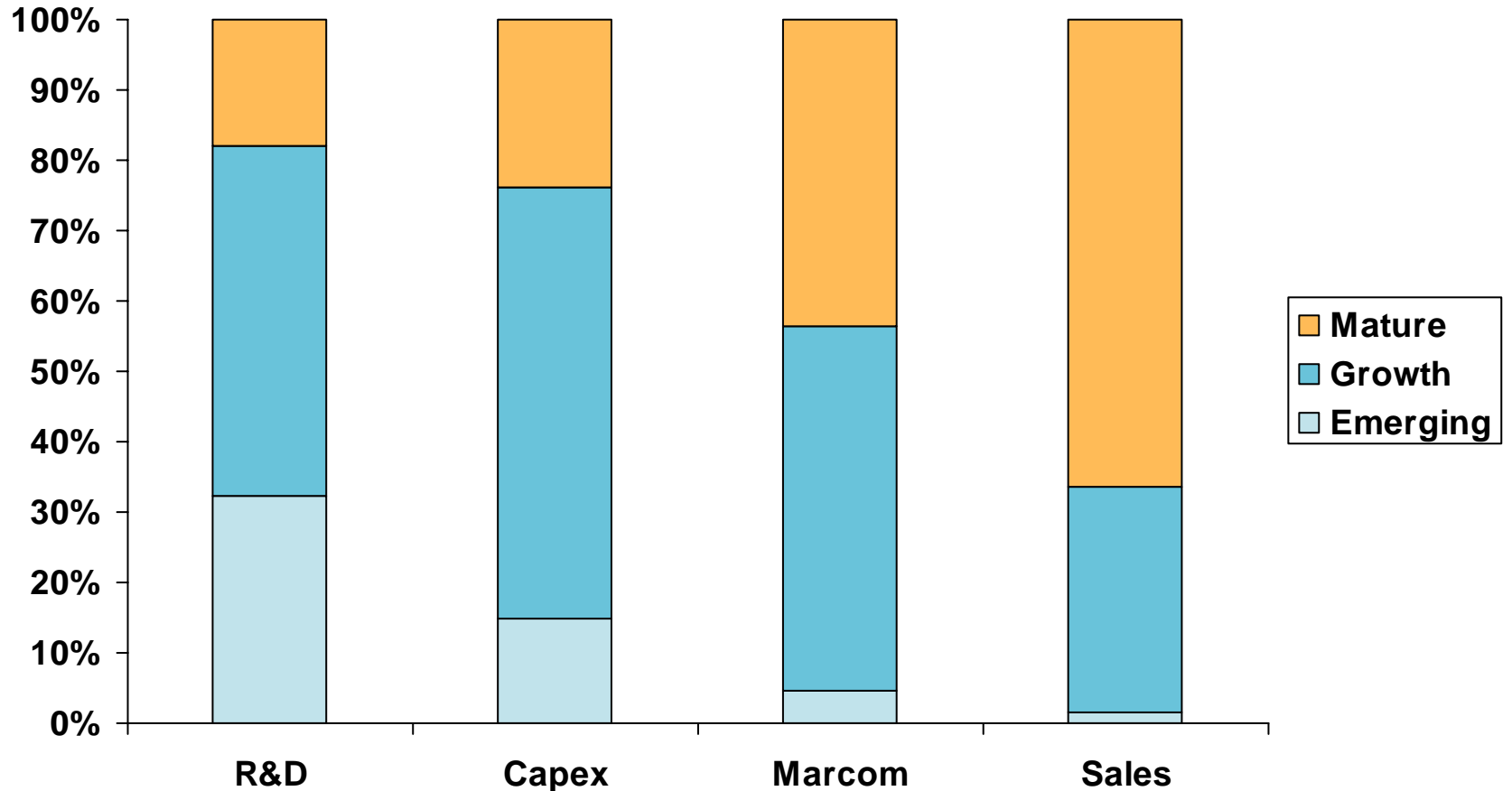
Patent portfolio increase
2000 – 2005: 68% *)



*) Excluding Lumileds

End-user driven innovation, technology leadership

Innovation drives investment for growth (2005)



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Marketing excellence

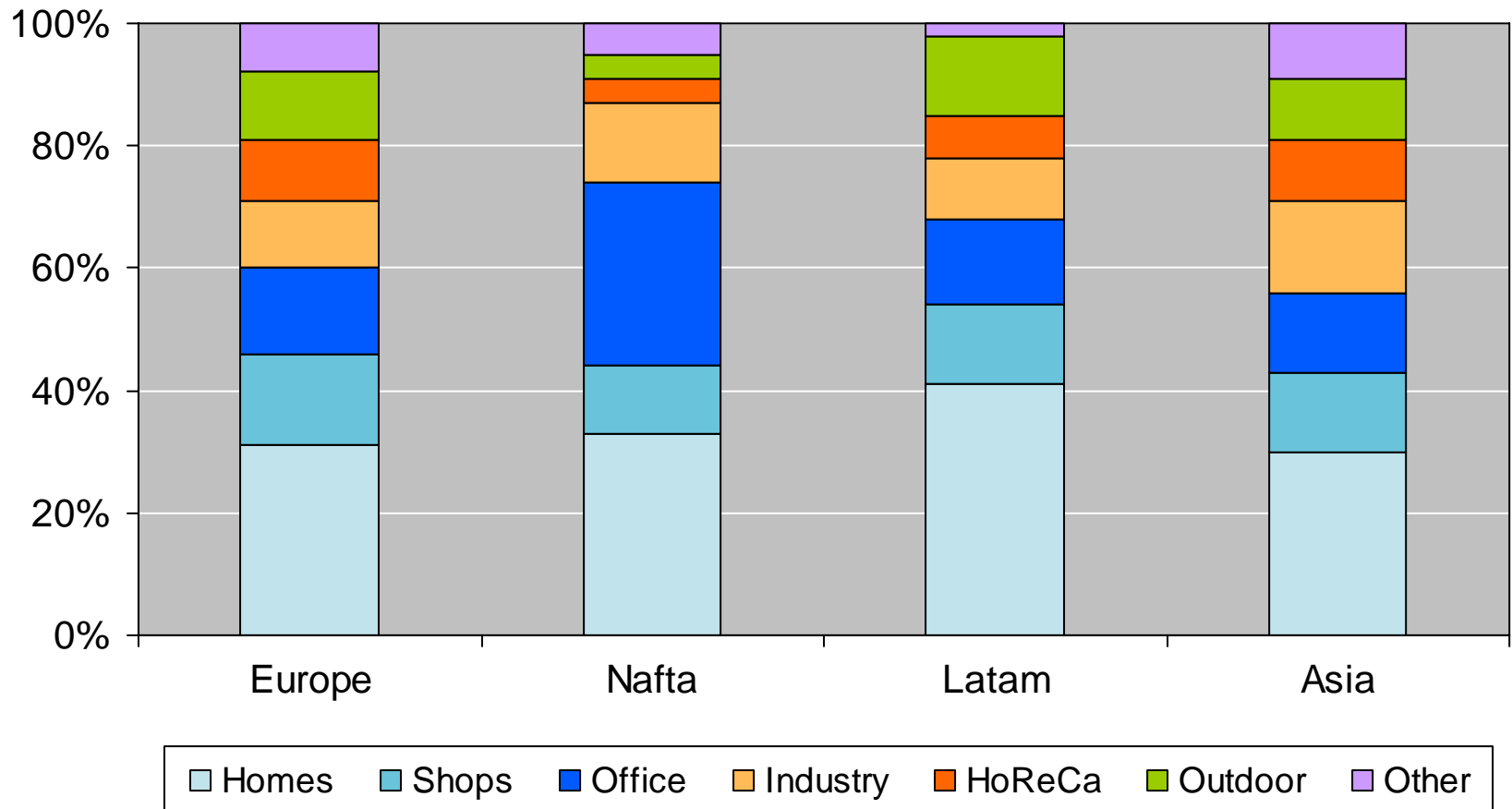
Building the Brand

PHILIPS

sense **and** simplicity

Marketing excellence

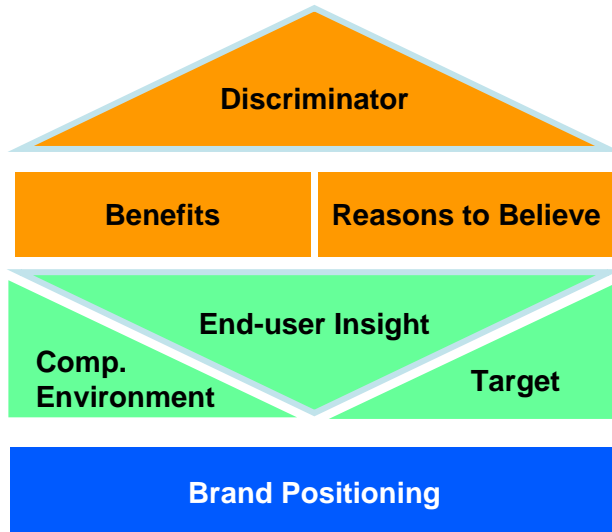
Market value by application segment



Marketing excellence

Focus on people acting in their surrounding

- Lighting needs are a function of human activity in a space; detailed insights are key
- We catch essentials of the solution in a Value Proposition House



- Many opportunities lie within general lighting
- We can address large, unmet end-user needs potentially earning higher margins

Marketing excellence

Flexible lighting in Shops

Shopper:



Insights:

I'd like to shop in an place that catches me, surprises me, inspires me, reflects me ... and my friends

Retailer:



Our stores needs to inspire and seduce.
All elements should be optimized to facilitate the sale

Installer:



The system should be easy to install, easy to create the light settings and hassle free.

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Supply excellence

Towards 0-defect quality in Automotive

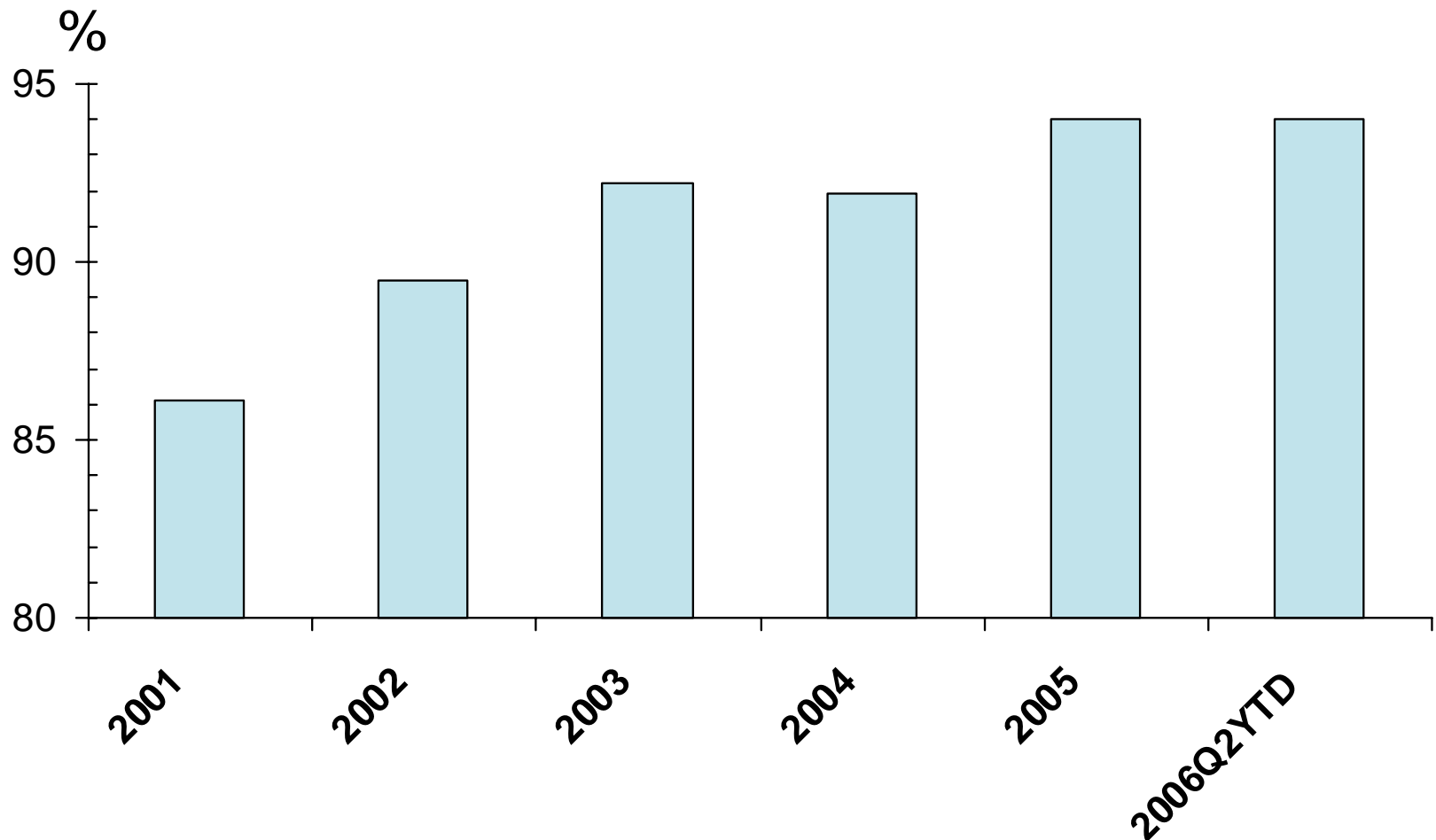
- Total car lamps supplied in 2005:
- 425 million pieces
- 1.4 parts per million rejected at carmaker



Supply excellence

No growth without Supply excellence

e.g. secure impeccable delivery reliability Total Philips Lighting

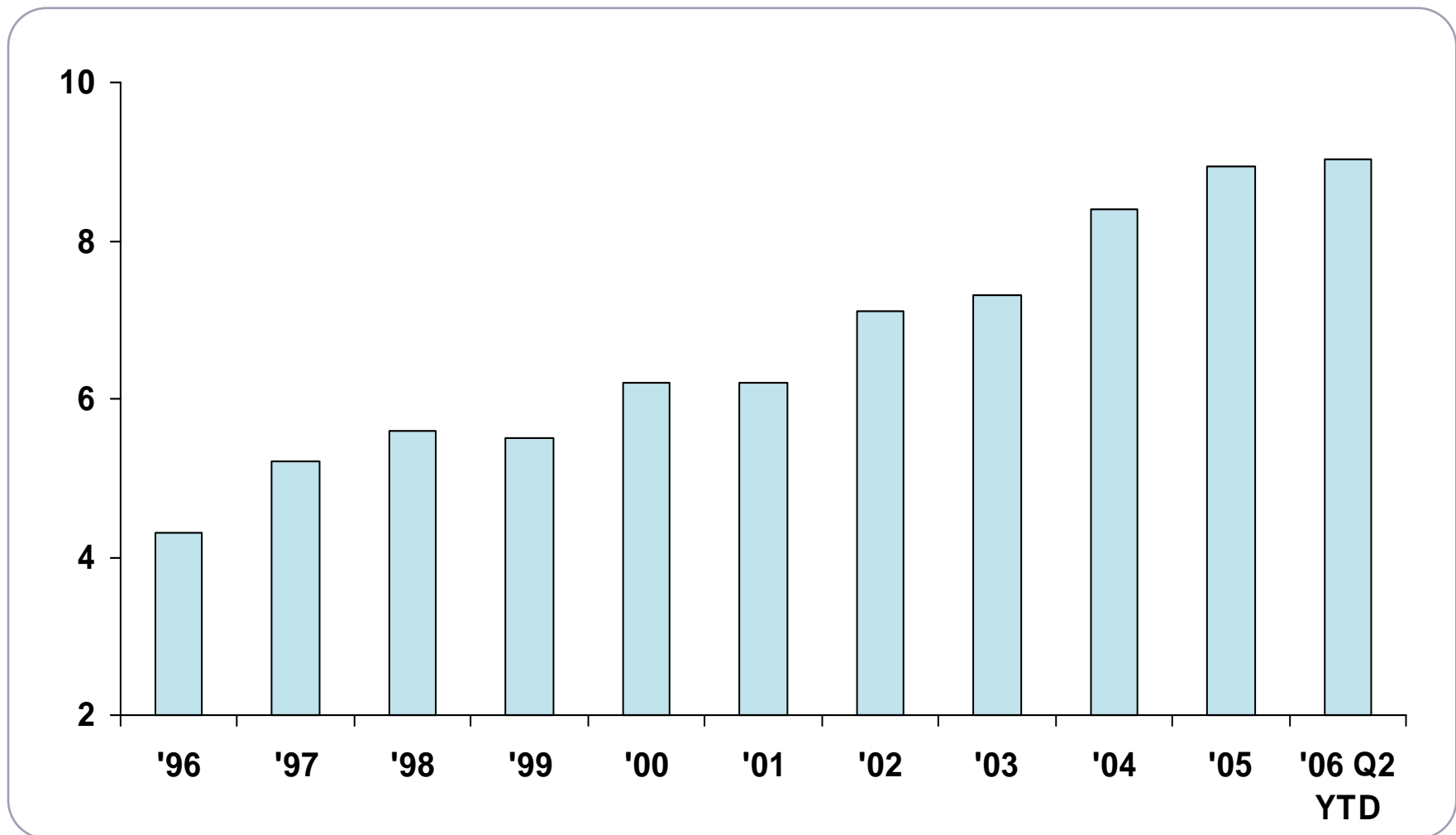


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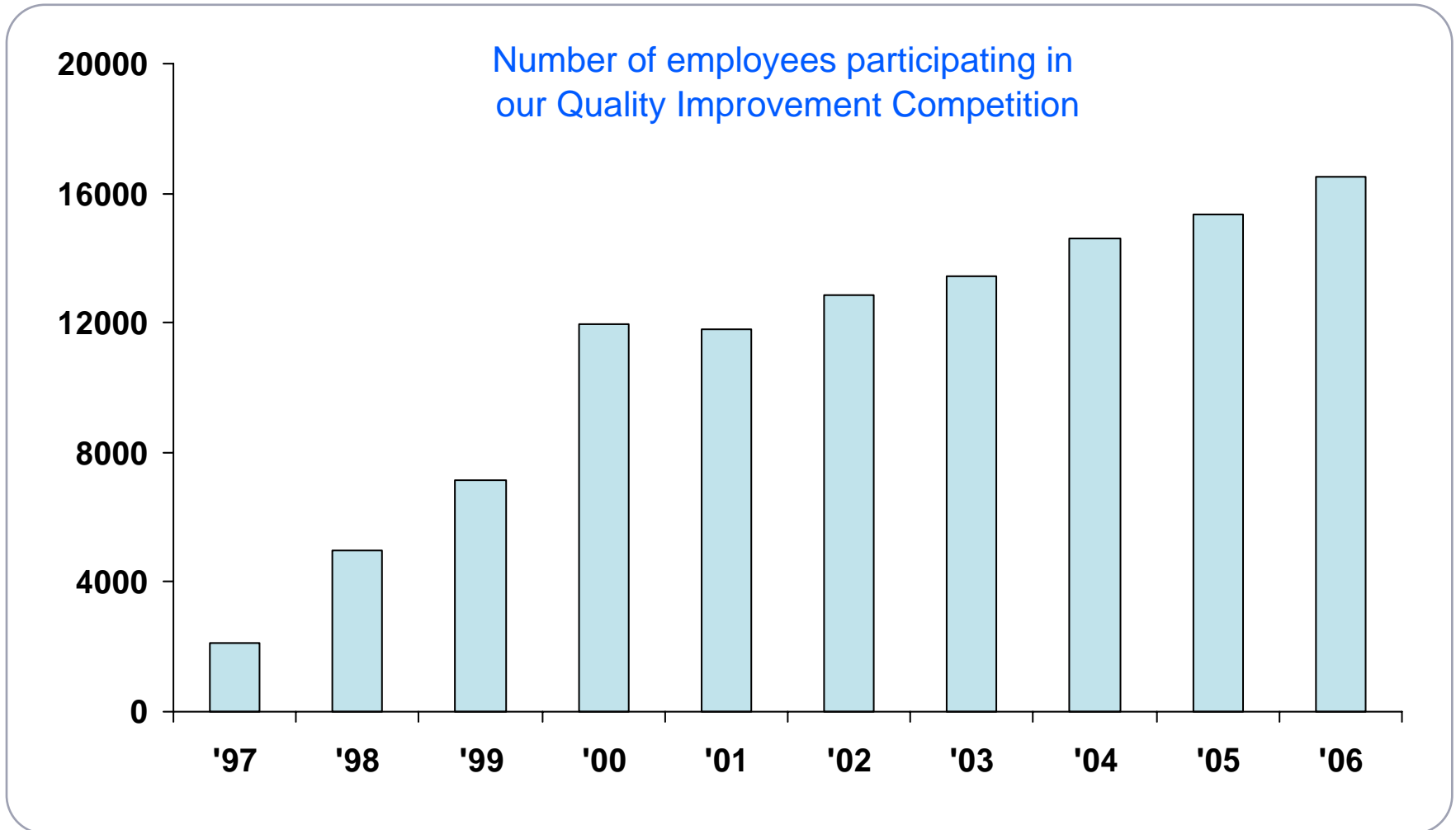
Continuous improvement

Working Capital turns



Continuous improvement

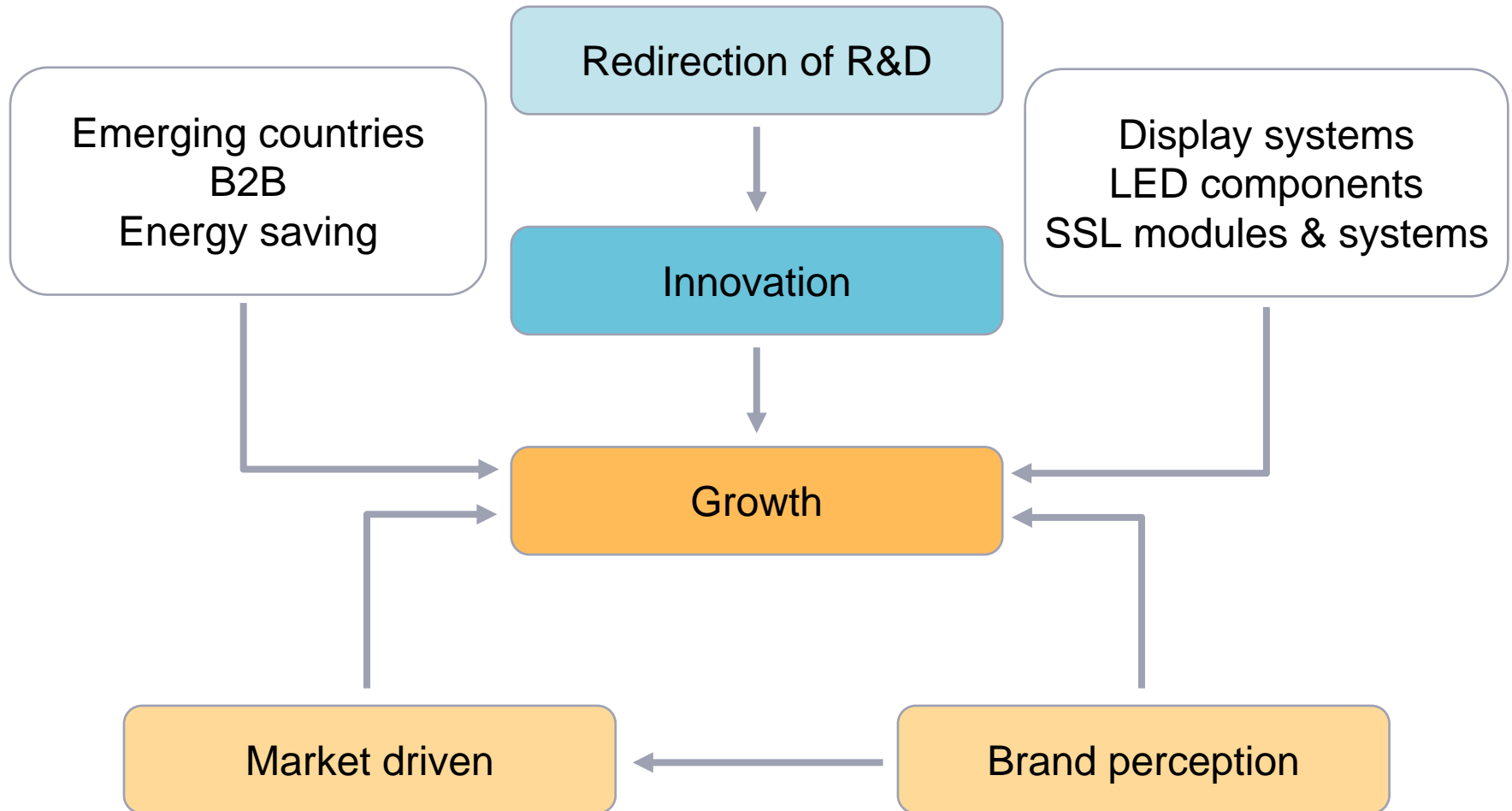
Employees are driving quality improvement



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Conclusion: Creating growth opportunities



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sense and simplicity

1890- : Electric Light shifted the Lighting Paradigm

This Room Is Equipped With
Edison Electric Light.

Do not attempt to light with
match. Simply turn key
on wall by the door.

The Next wave: Solid State Lighting (LEDs)
will shift it again