



NOVALED: The OLED Growth Story

Harry Böhme CFO, Novaled AG

Personnel

Offices



Novaled at a Glance

> Founded 2001 by Prof. Karl Leo et. al. as a spin-off of Fraunhofer Society and TU Dresden to commercialize OLED technology **Foundation and** Legal form > Stock corporation since March 2006 > A leading provider of customized OLED stack solutions based on the **Today** Novaled PIN® technology and material **Turnover and** > 2012 Revenues: €27,6 Mio (2011: €20,7 Mio) **Financing** > Profitable since 2011; Venture Capital funded, 3rd round of financing in 2009 IP > > 500 patents and patent applications > A business driven organization with multi-skills in Physics, Optics & Chemistry; Assembly & Manufacturing; Marketing & Sales

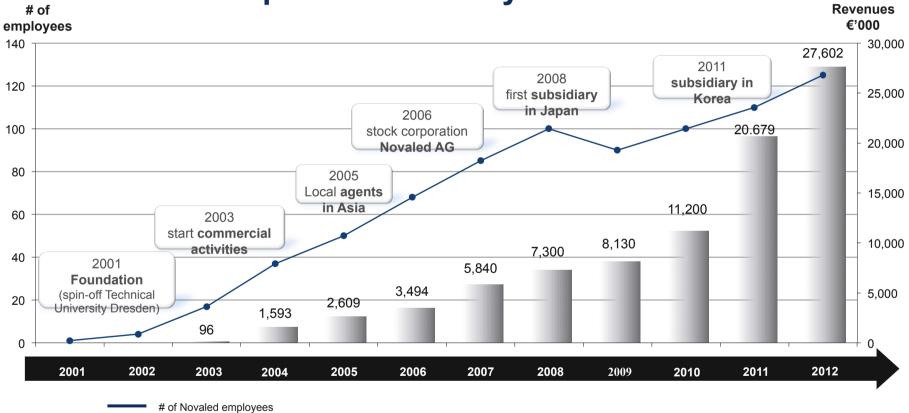
> HQ: Dresden, with offices in Korea and Japan

> Headcount: >135 (2013)

EcoSummit 2013 - Page 2

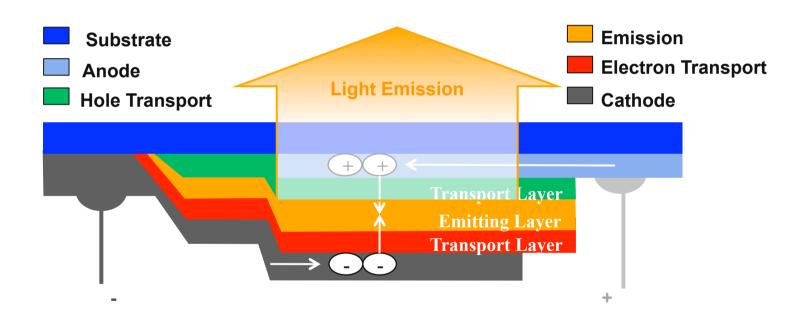


Novaled - A Unique Growth Story



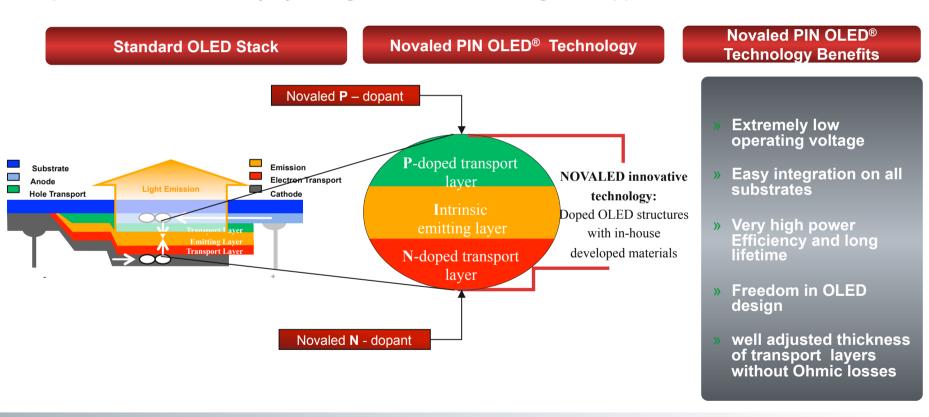


A little bit of Technology: The Standard OLED Stack....





...and what we make of it: Improved Power Efficiency by Voltage Minimization through PIN approach and Novaled materials

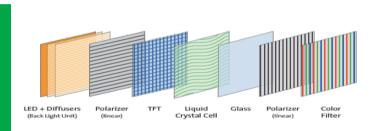




OLEDs Are Superior to Existing Display Technologies

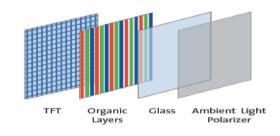






Display Components

OLED



Superior picture

OLED vs. LCD - Key Benefits

Lower power consumption

Increased product lifetime

Thinner form factor

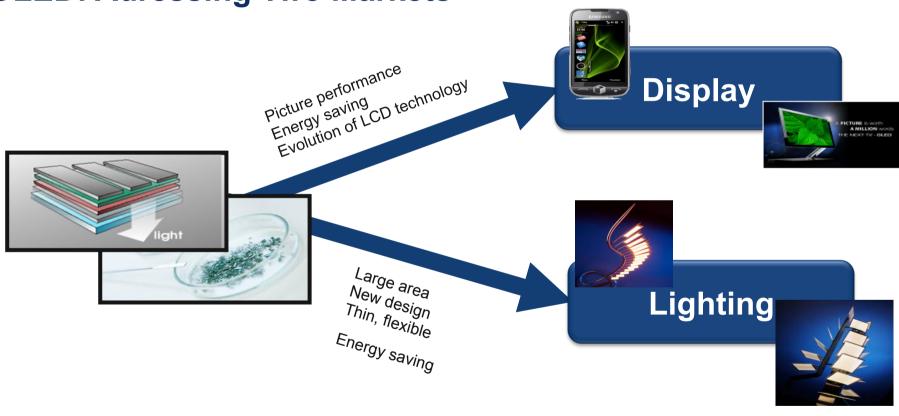
Faster response time – ideal for 3D TV

Simpler manufacturing

Evolutionary technology for LCD manufacturers

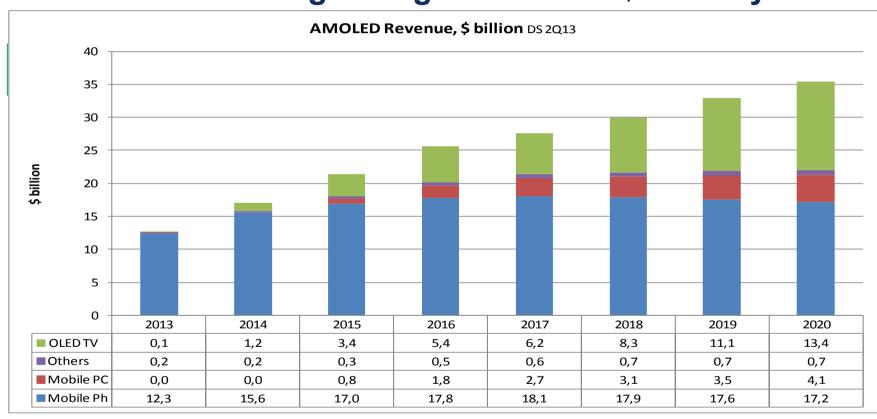


OLED: Adressing Two Markets





AMOLED revenue – growing ~3x to over \$35 bn by 2020



Novaled confidential Source: Display Search 2Q13 EcoSummit 2013 - Page 8

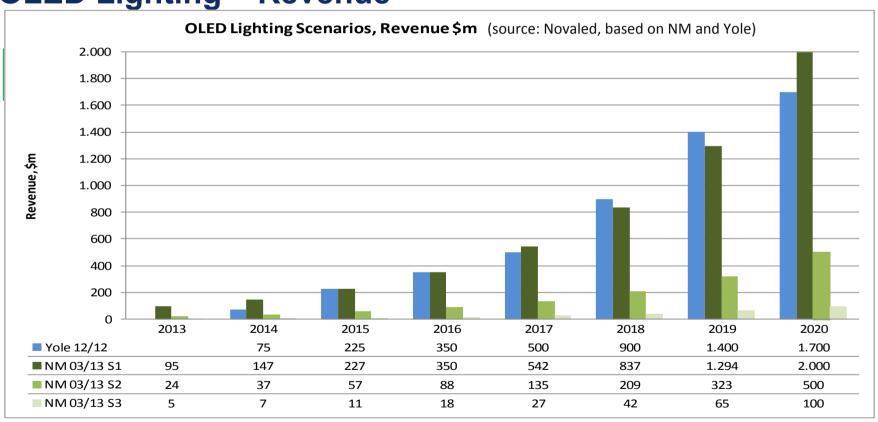
Creating the OLED Revolution





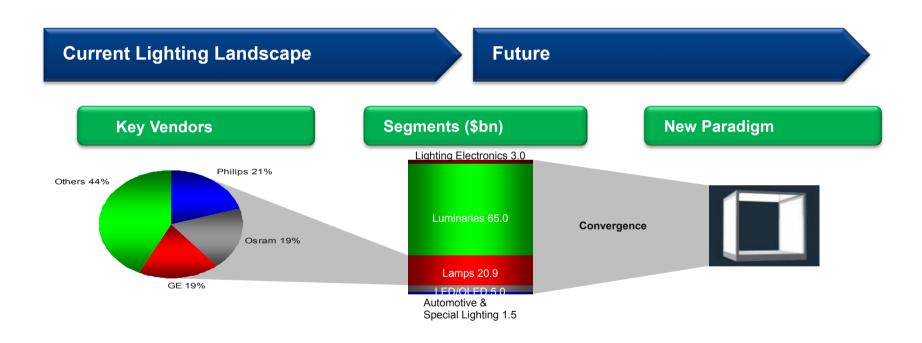


OLED Lighting – Revenue





OLED will Modify the Lighting Value Chain





The Exit

- On August 9, 2013, Cheil Industries, Samsung Electronics, Samsung Ventures, the current Shareholders and Novaled AG signed an Agreement for the sale of the majority of shares in Novaled AG to Cheil Industries and Samsung Electronics
- Closing is expected on Oct. 15, 2013
- The transaction values Novaled at a total enterprise value of €260m including an earnout-component of €30m



EcoSummit 2013 - Page 12



1.) The Team



- 135 young professionals, highly motivated and multi-skilled:
- o a combination of know-how in physics and chemistry,
- supported by lean and efficient teams in Marketing and Sales, IP and Business Administration.





2.) The Investors

Leading German and French Venture Capital Companies:



eCAPITAL

Omnes Capital





Techno Start

TechFund





BFH

KfW

CDC Innovation





Fraunhofer

Technicolor



Dresden Fonds

Accompanied in 2011 by Samsung Ventures, who acquired a 10% stake.





3.) Industry Focus

- A strong and early focus on potential manufacturing customers,
- o combined with a strong quality management approach (ISO-certified, Member of EFQM).



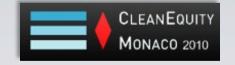


4.) Exposure to the Financial Community

- High frequency of speeches at national and international financial and technical conferences,
- recognised by numerous awards







EcoSummit 2013 - Page 16



5.) Preparation of IPO at Nasdaq

Since beginning of 2012, the company prepared for an IPO at the
NASDAQ as one exit route for existing investors

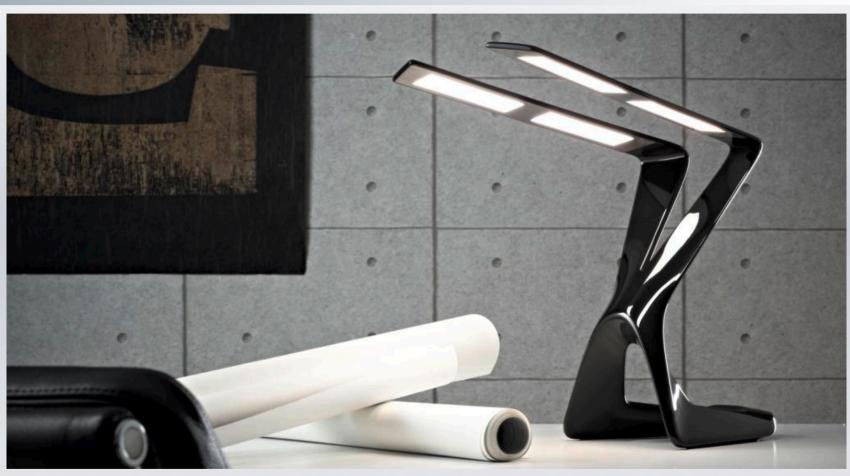
Pros: - High attention from potential investors

- Preparation process created higher levels of professionalism

Con: - Expensive

Creating the OLED Revolution









Thank you for your attention!

Novaled AG

Tatzberg 49 · 01307 Dresden · Germany

Phone: +49 351 796580 · Fax: +49 351 7965829

www.novaled.com