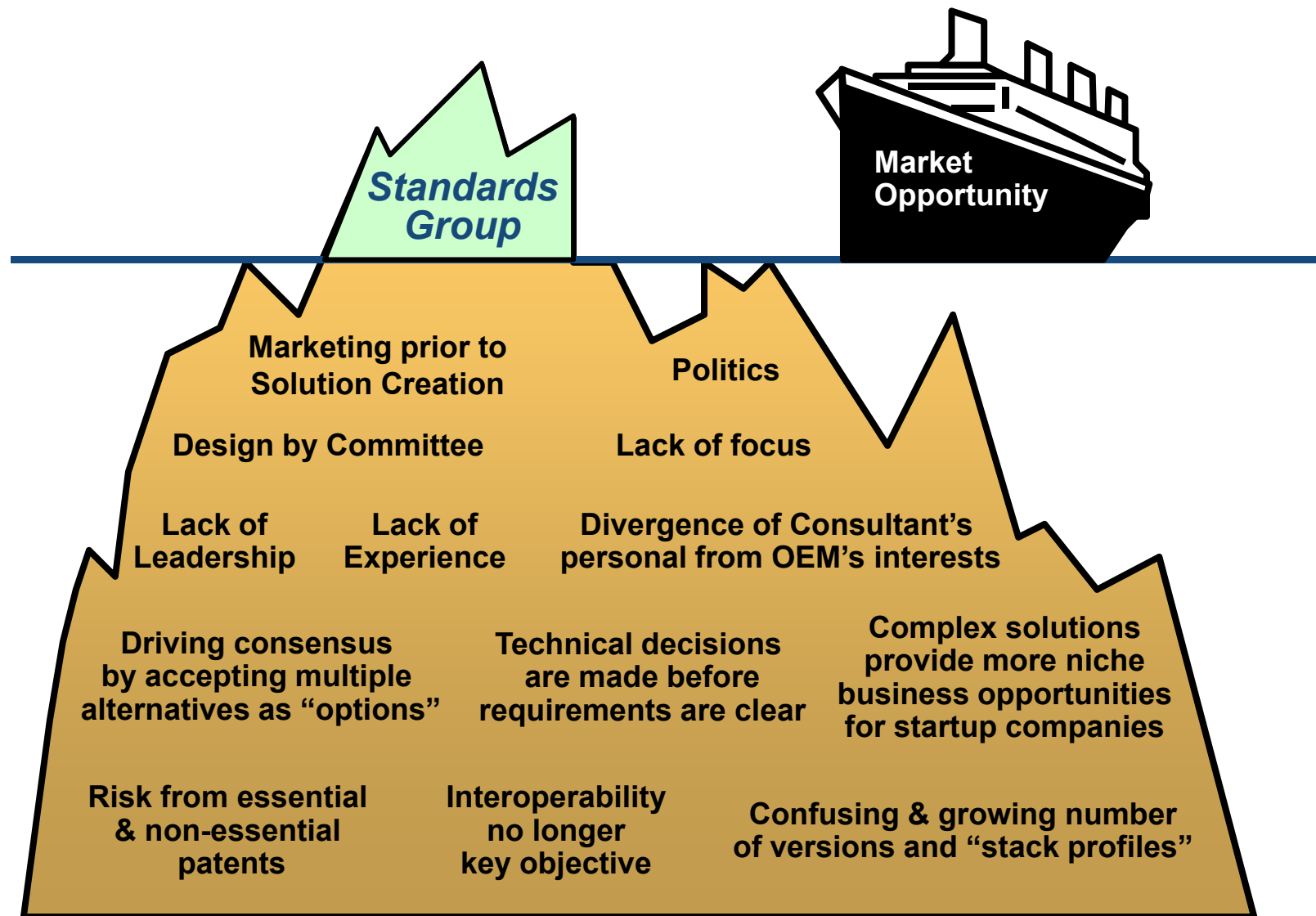

*7th Leibniz Conference of Advanced Science –
Sensorsysteme 2008*

Babylonisches Sprachgewirr ?

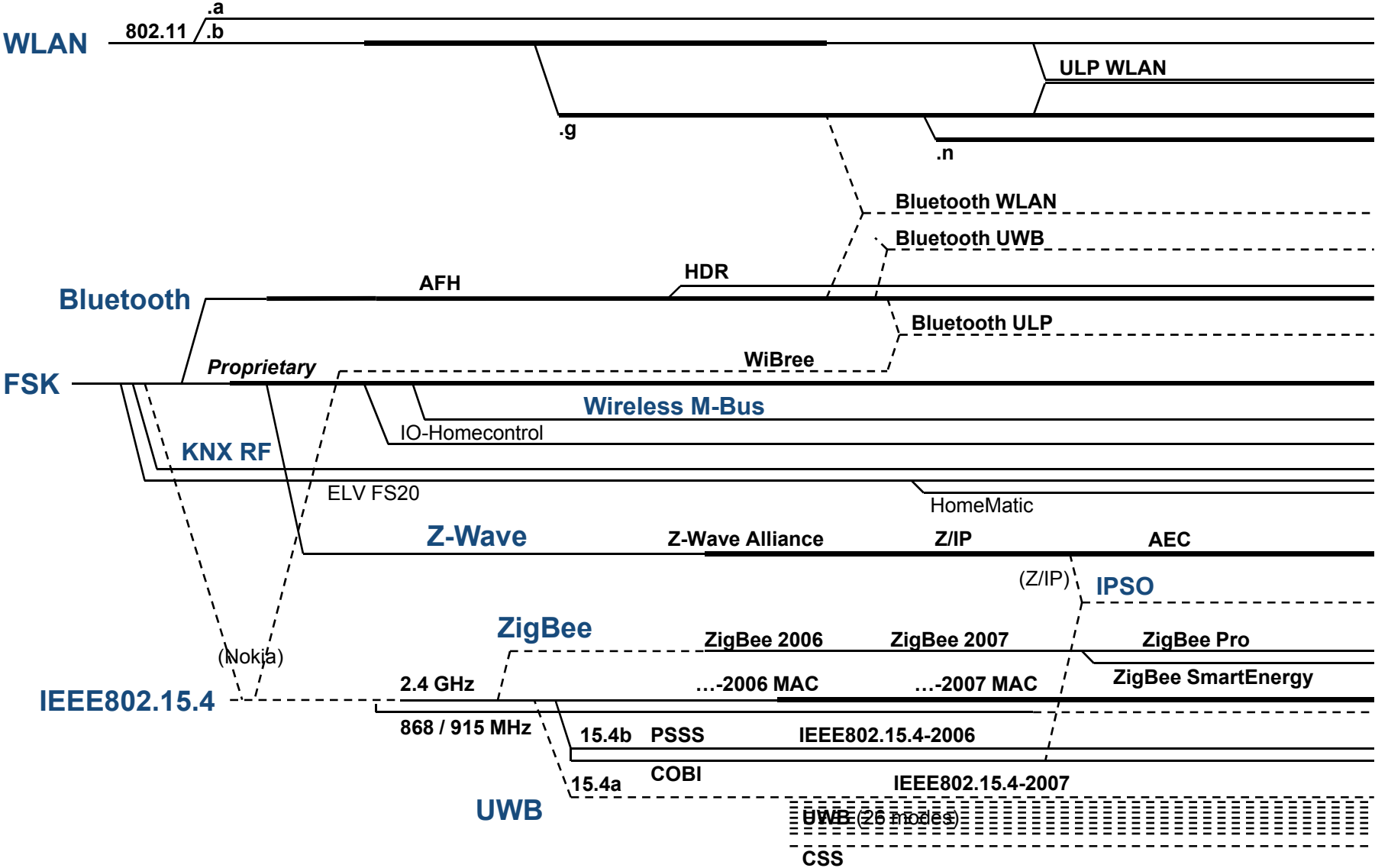
Trends bei Wireless Standards für kurze Entfernungen

Bernd Grohmann
Lichtenwalde
17. Oktober 2008

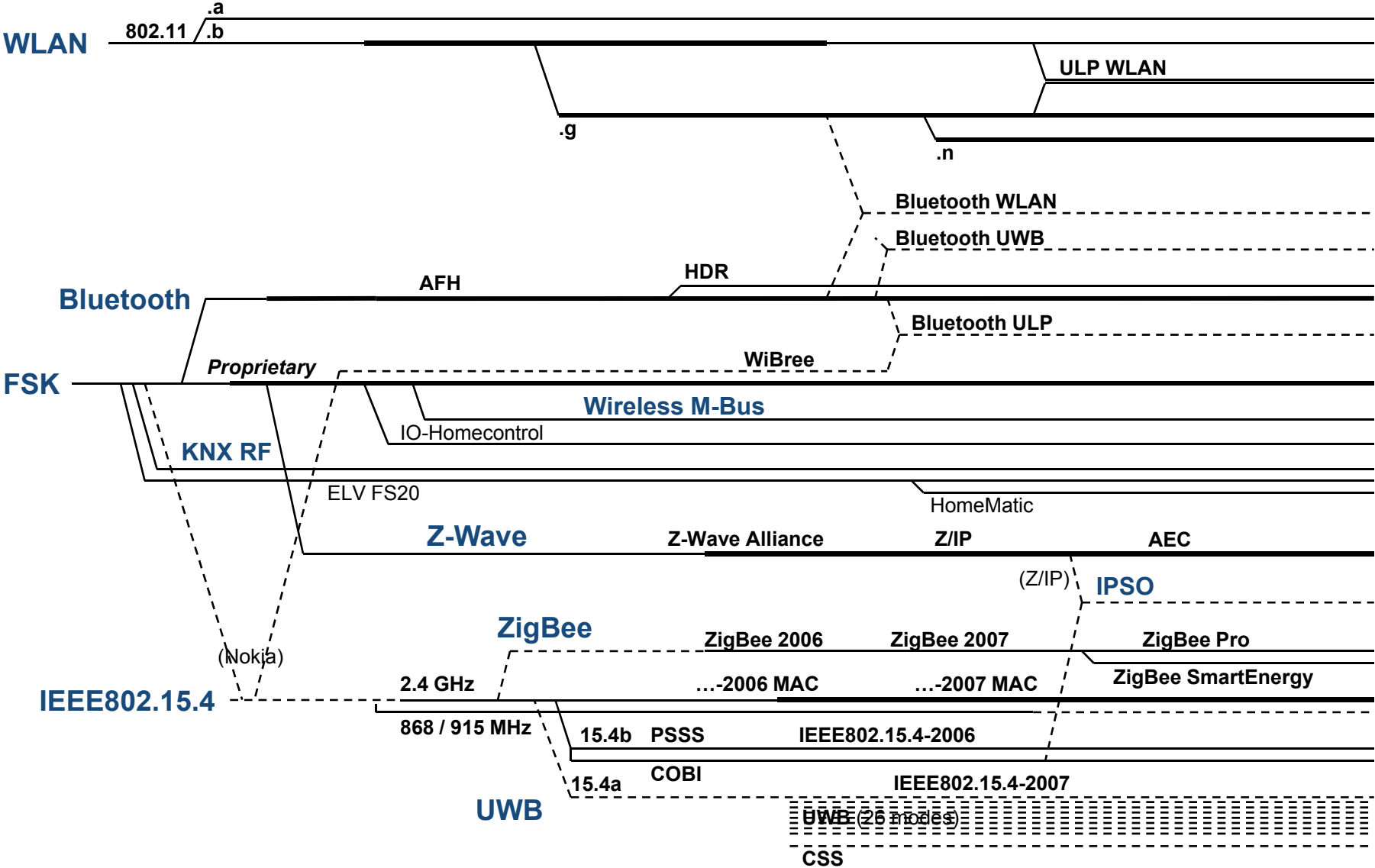
Creating a wireless sensor network standard is **NOT** easy...



The short range wireless alphabet soup...



The short range wireless alphabet soup...



Summary – Situation & Trends in short range wireless

- **IEEE802.11 will expand from wireless LAN to AV / CE applications**
2.4 GHz will continue to be the dominant RF band in most markets
- **WLAN interference is accepted as a REAL concern –**
Sub-1-GHz standards provide winning alternatives to use of 2.4 GHz
- **Don't expect ZigBee to succeed in the market –**
But 802.15.4 and especially 15.4b / -2006 will find their markets in industrial & commercial spaces
- **Z-Wave leads in home control and is the strongest contender to set the standard –**
It will not loose against today's competitors – but it neither has won the game yet
- **Expect that TCP/IP will play a major role in sensor networks –**
IPSO and IETF will dwarf all other TCP/IP related groups / attempts
- **Bluetooth will continue to be big around the mobile phone –**
But who needs the various other Bluetooth variants?
- **Watch out for low power WLAN in the future –**
However, don't be mislead by marketing into unrealistic expectations

Thank you!

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