

SHT – Sinterma AB

Thermal Interface Materials (TIM) for demanding applications

We provide efficient cooling for electronics using better TIM

Our material

- saves money!
- saves energy!
- increases lifetime!
- improves efficiency!
- improves capacity!

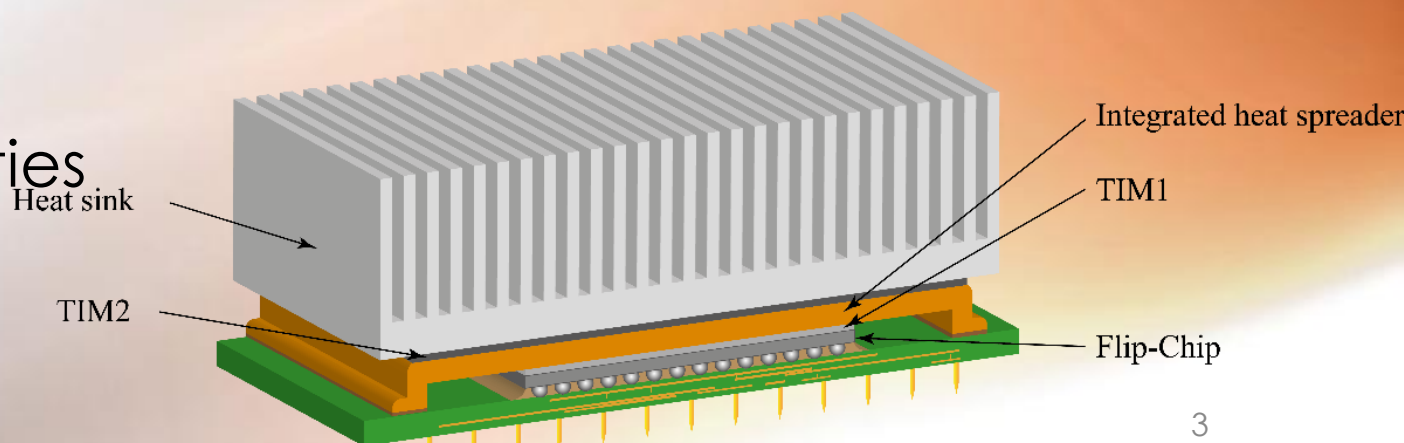
The challenge

- Heat
- Internet and IoT grows
 - 2% of energy consumed
- "Thermal explosion"

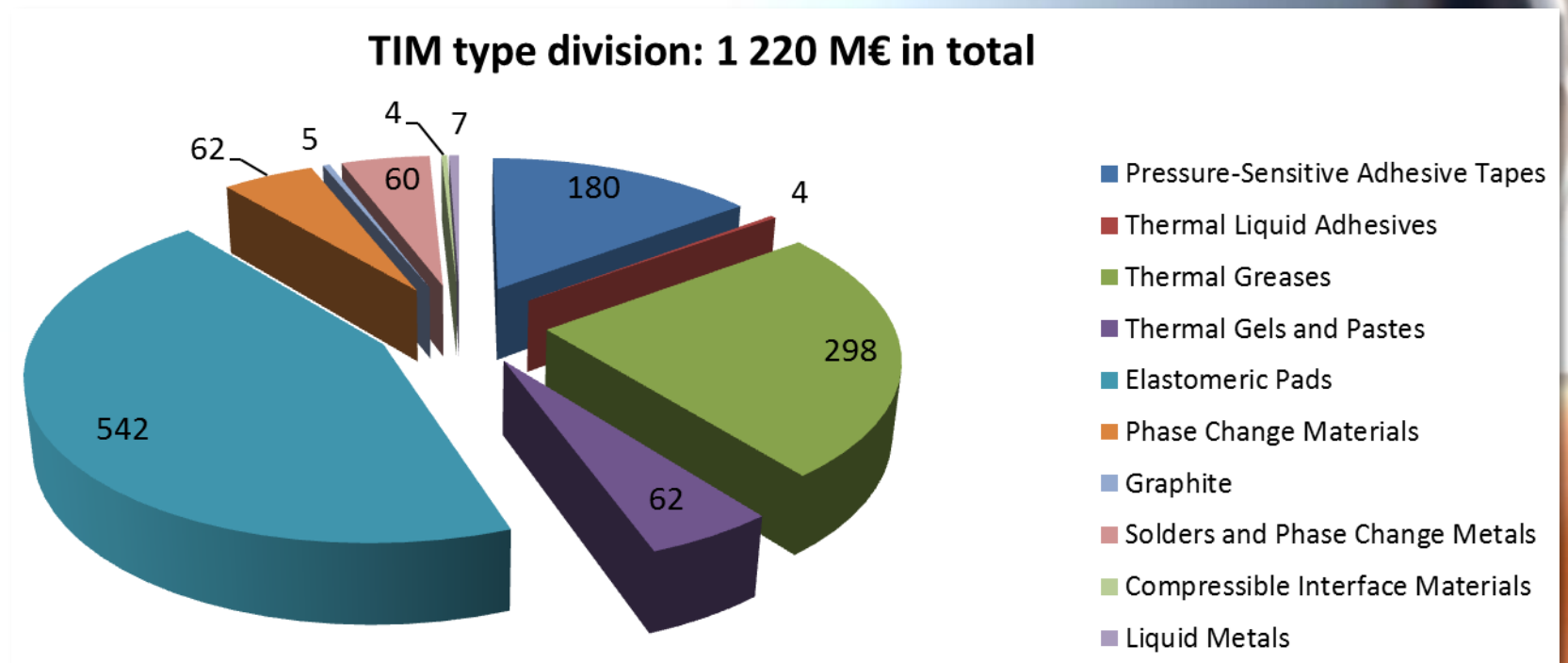
Thermal Interface Materials (TIM)

- Trends:
 - Larger components (system on a chip)
 - Higher temperatures (hot spots)
 - Energy efficiency demands

- Sinterma's TIM solves issues in relation to the trends above
 - Cheaper
 - Better mechanical properties
 - Longer life time



Market



CAGR predicted to 10% per year.

Segments

Automotive

Avionics

Defense

Computer Processors



Large companies tests our TIM

The company and IP

- **Business idea:** Manufacture and sell TIM to customers requiring high quality and for demanding applications.
- Have a long track record of R&D projects with possible customers
- Patents for product and manufacturing
- Prototype production machine
- Customer network



Our Products Families



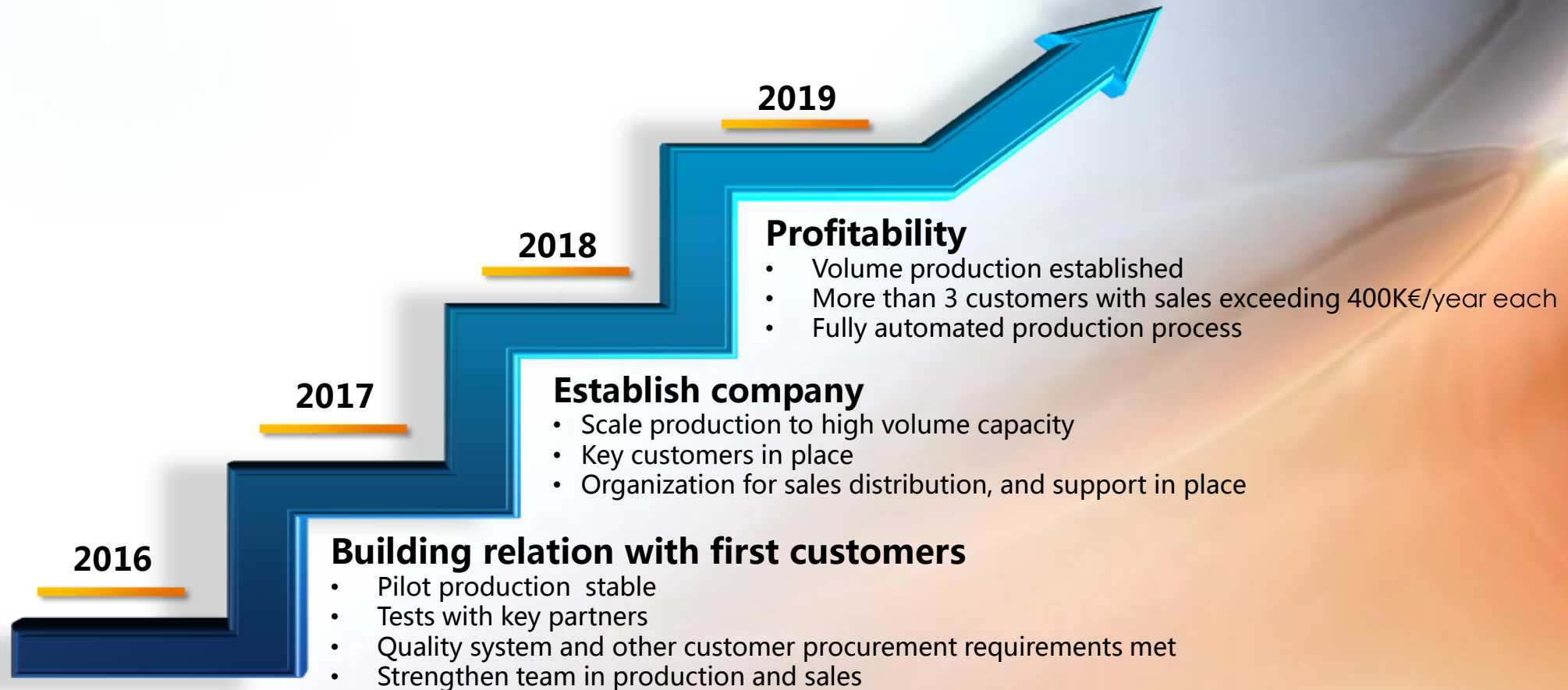
Product	SHT60	SHT160	SHT220
<i>Application example</i>	Computer processors	Radar and other avionics products	Automotive
<i>Technology segment</i>	Phase change materials	Elastomeric pads and solders	Solders

Capacity and demand

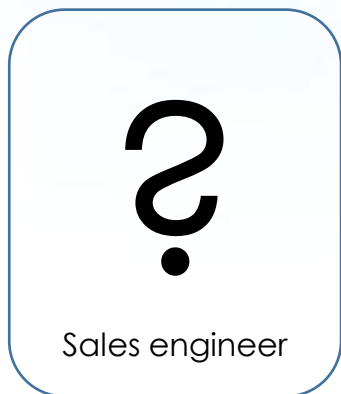
- 50 000 – 500 000 pieces per year and application
- Current capacity 100 000 pieces per year
- 10% of market share is 6 000 000 pieces
- Needs additional production capacity before 2017
 - € 250 000/machine



Company development



Team



Henric Rhedin; CEO



Dr. Lilei Ye; CTO



Professor Johan Liu



Nikos Logothetis



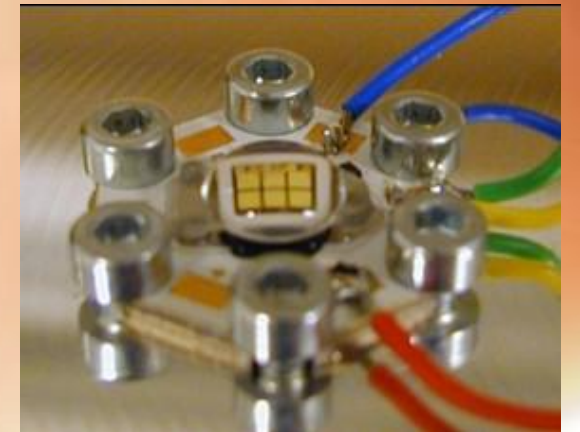
Dongkai Shangguan
Chief Marketing Officer of STATS ChipPAC



Torbjörn Nilsson, Saab AB
Joakim Anjeby CEO RUAGAB
Ivan Öfverholm former CEO Saab Space AB
Bill Brox, CEO

Our challenges

- Become a supplier
 - Certification, quality control, long term stability ...
- Show high volume production capacity
 - Testing volume production prototype at this moment
- Building sales and distribution capacity



Investment

- € 400 000 in soft funding and own investments
- € 450 000 Q1 2017
- € 850 000 Q1 2018
- In total € 3 500 000 before 2021
- in order to get to a € 9 M in annual sales (10% market share)

- Funding primarily for production and sales

Contact Info

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