

## CORROSION PROTECTION LAYERS FOR EXTREME CONDITIONS (COREXT)

- Waste management will be key issue in the future: no landfilling means increase of waste to energy boilers. Inhomogeneous nature of waste can cause severe corrosion in such boilers, especially active chlorine corrosion at temperatures of 500-700 °C. Service life of waste to energy boilers can be improved by protective layers.
- This project idea combines several technology areas from raw material manufacturers, coating technology companies to end-users (waste to energy boilers) creating well-defined value chain targeting to solve corrosion problem in waste to energy boilers.
- Project is concentrating on material development and technology to apply it onto surface. The goal is to adapt chlorine corrosion resistant coating system and material solution for it based on patent application (PCT/FI 2012/050304), so called chlorine-trap (barrier). Project outcome is upscaling the manufacturing route based on patent application.

- The value chain:

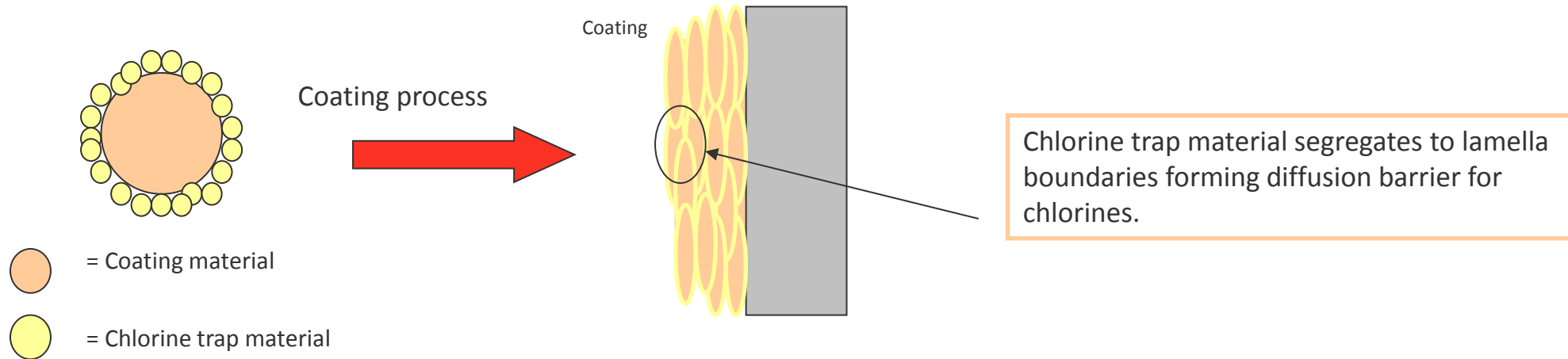


launch new product(s) on markets->end-users lower operating costs.

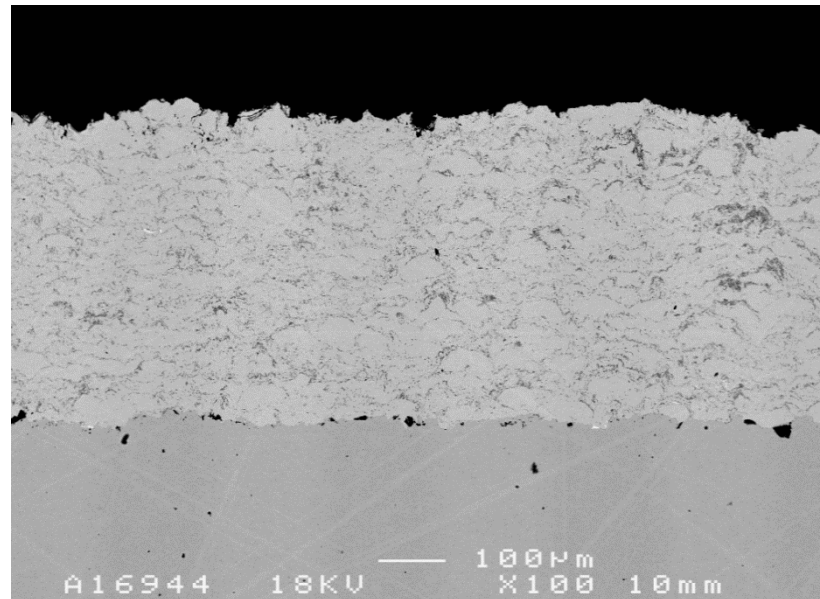
Together there are thousands of companies in powder manufacturer and coating technology sectors in Europe.

- Partners already identified:  
Durum GmbH, Telatek Oy, IMN (Poland), Laanila Power plant.
- Wanted additional partners :  
Powder based raw-material manufacturers having flexibility to adjust their production lines, coating technology companies

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Reference coating



Trap-coating, trap material distribution seen as bright areas

