

The VTT logo consists of the letters 'VTT' in a white, bold, sans-serif font, centered within a solid orange square. The background of the slide features a repeating pattern of stylized, interlocking shapes in orange, blue, white, and black, creating a dynamic, geometric effect.

VTT

Towards Fossil-free Steel 2 – FFS2

VTT

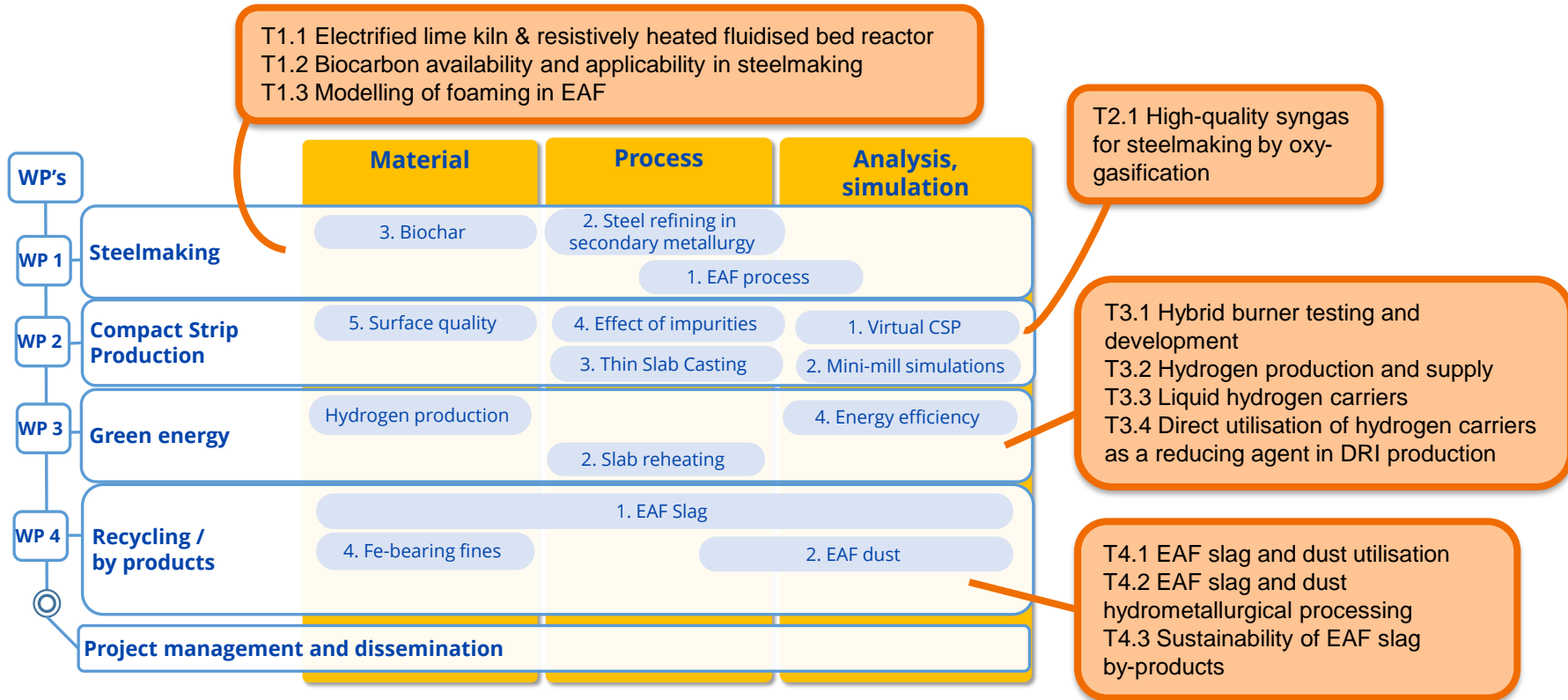
19/03/2024 VTT – beyond the obvious

VTT's role in FFS2

- In FFS2 VTT has a key role in **developing the hydrogen** supply options to large-scale end-users in Finland.
- In addition, the **electrification of high temperature industrial furnaces** will be studied via development of new electricity assisted burners, furnaces and rotary kilns.
- Availability of sustainably sourced Nordic forestry **feedstocks for biocarbon production**, properties of produced **biochar** and their applicability in Finnish steel making will also be studied.
- Furthermore, investigation of **fossil-free steelmaking residuals** (slags, sludges, dusts) and their utilization methods will be conducted.
- All VTT's tasks in FFS2 are listed in the next slide.



VTT's tasks in FFS2 Work Packages



VTT – *beyond the obvious*

VTT is a visionary research, development and innovation partner and one of the leading research organisations in Europe.

Our role is to promote the utilisation and commercialisation of research and technology in business and society. Through science and technology, we turn global challenges into sustainable solutions for business and society in a responsible way.

261 M€
turnover and other
operating income

2,213
employees

43%
of the net turnover
from abroad

32%
a doctorate or a
licentiate's degree

Established in
1942

Steered by Ministry
of Economic Affairs
and Employment