

# Paldsiki Tsingipada OÜ

Protecting metals from 2006

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# Who we are and what we do?

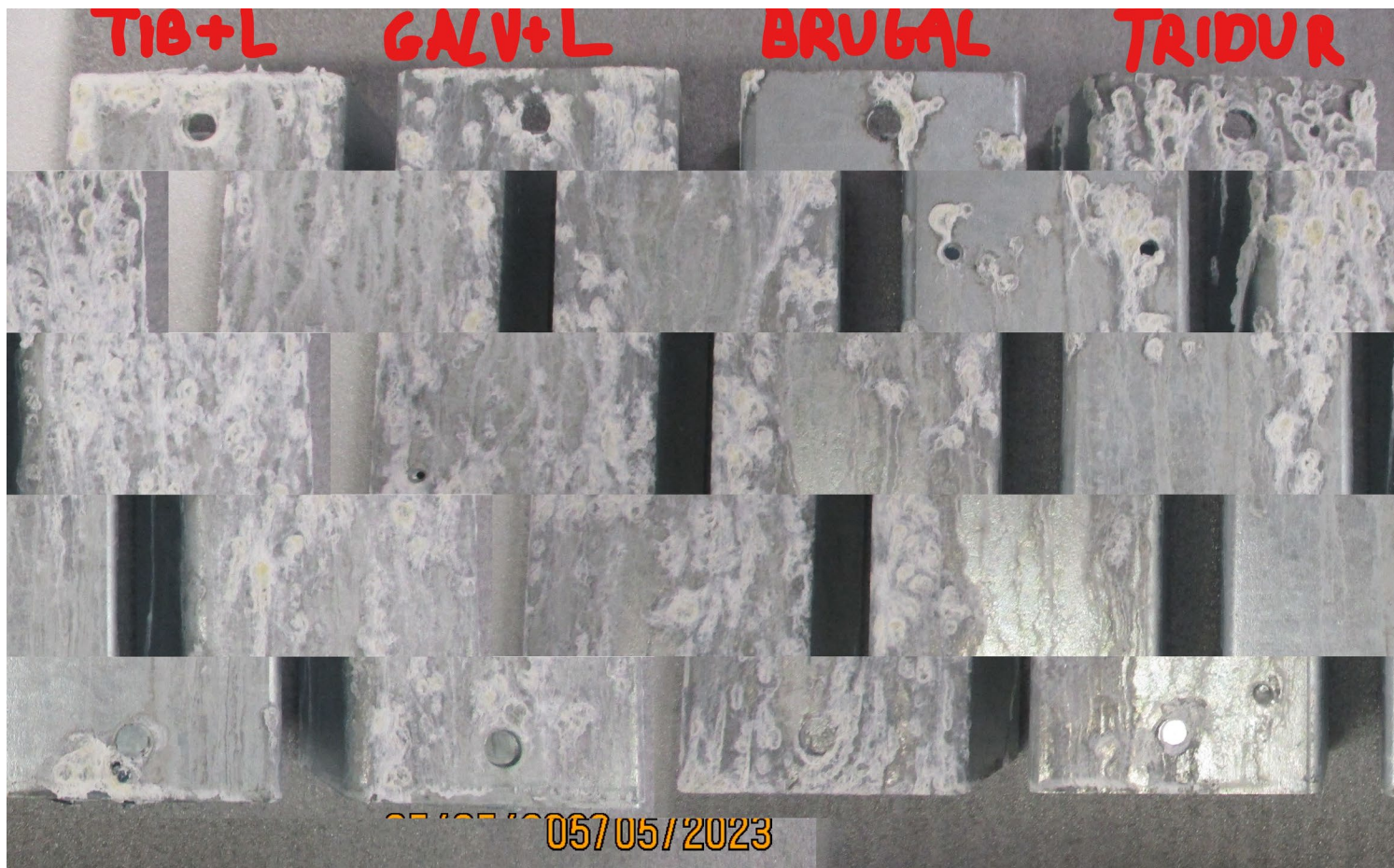
- ▶ We protect 10 000 t of metal every year
- ▶ We have 500 clients
- ▶ We protect 100 000 different parts
- ▶ We use 650 t of zinc a year
- ▶ Maximum size of a product is 6,8 x 1,35 x 2,5 m and maximum weight is 5,3 t
- ▶ We have 5000 m<sup>2</sup> of production area
- ▶ We have around 400 000 l of production bath volume

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# Testing



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# Challenges

- ▶ The market has evolved since 2006. What was then cutting edge is nowadays a normality.
- ▶ We need to adjust our services to our clients needs.
- ▶ As we have so many different clients from different fields our services have to be very versatile.



# Goals

The goal of participating in the project is to improve the quality of the coating process, thus reducing a share of non-conditional products and increasing related process efficiency, which is expressed in decreased consumption of chemicals and energy, as well as related cost.

- ▶ Minimize coating defects
- ▶ Maximize throughput
- ▶ Reduce the amount of waste produced
- ▶ Extend the life of used chemicals

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A decorative graphic on the right side of the slide. It features a wavy line in shades of green and grey. In the background, there is a photograph of an industrial facility with several large tanks or containers. The text 'Parim kuumsinkimine' is written in red, slanted font across the bottom right of the graphic.

# Plan

- ▶ Get more knowledge about the interaction of the chemicals used both in the working environment of the hot-dip galvanizing process and in the time frame associated with the product's life.
- ▶ To better systematize the background data of chemicals and material science and in the interaction and understand the environmental impact of the entire process chain.
- ▶ Upgrade the pre-treatment process
- ▶ Minimize the treatment time with mechanical aids
- ▶ Add rinses to protect next treatments

