



Ympäristöystävällisen kromauksen kehittämistyöpaja

(Workshop for the development of environmentally
friendly chrome plating)

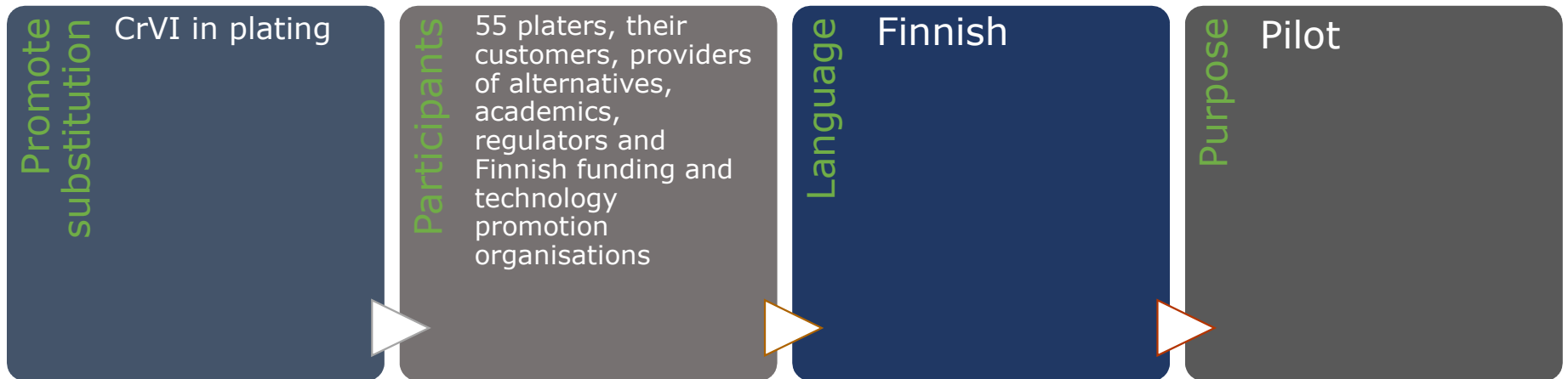
Organised with the Finnish Galvanotechnical Associations

Hosted by
Aalto University
Design Factory
25 January 2017



ECHA's workshop on substitution strategy
10 October 2017 Helsinki
Matti Vainio
Head of Risk Management Implementation Unit

BACKGROUND AND OBJECTIVES



Create a replicable model for other SVHCs and industrial sectors

tukes

INTRODUCTORY PRESENTATIONS

Changing technical requirements for end products: effects for platers

Role of product design in innovation

Alternative technologies

Research and development innovation funding, with a case study by industry

Co-operation in research and development in the value chain

oerlikon



HYDROLINE
SMART HYDRAULICS

SAUROC
HARD CHROMIUM TECHNOLOGY.

COVENTYA

Tekes

DIMECC

esa





World café
types of discussions...



identifying innovation project
ideas

PRESENTATION AND DISCUSSION OF PROJECT IDEAS



PROJECT IDEA 1

Validation of alternative technologies

Against requirements of end customers

Whole value chain present

Project would also benefit from university partners

Establish testing scale plating lines for trivalent chromium in hard chrome plating

Limited possibilities to test new technologies for end customers

Test together with providers of alternatives



PROJECT IDEA 2

Choosing an alternative coating

Industry-specific portal of alternatives and alternative providers

Substitution would be facilitated by information on

Properties

Costs

Applications areas

Tekes

Tuotekehityksen ja innovaatioiden rahoitus

Ympäristöystävällisen kromauksen kehittämistyöpaja
Otaniemi 25.1.2017
Sisko Sipilä, Tekes

Tekes

BANG & BONSMER

Companies



PROJECT IDEA 3

Small Finnish job platers to co-operate

Save in research expenses

Introduce alternative technologies

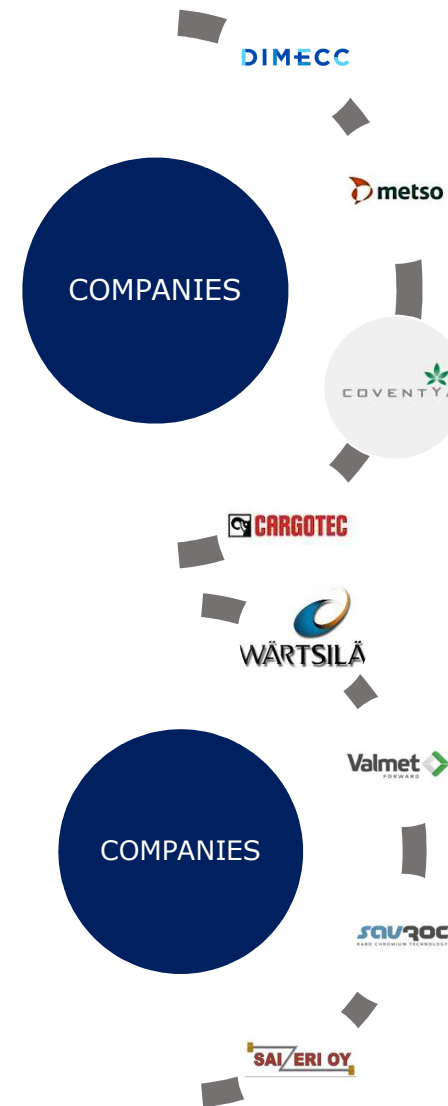
Screen customers' requirements


Activate end customers to collaborate

Co-operation needed in value chain

Brainstorm jointly to identify new ways

Specific platform or facilitation by experienced expert may be needed





*“TELL ME AND I FORGET.
TEACH ME AND I REMEMBER.
INVOLVE ME AND I LEARN.”*

- Benjamin Franklin

WHAT DID WE LEARN?

Some platers did not find the workshop valuable

Workshop fulfilled expectations

Some platers and their customers met for the first time to discuss specifications

Connections were made

Dialogue is difficult and important

Important for "movers and shakers" to meet

Thank you!

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