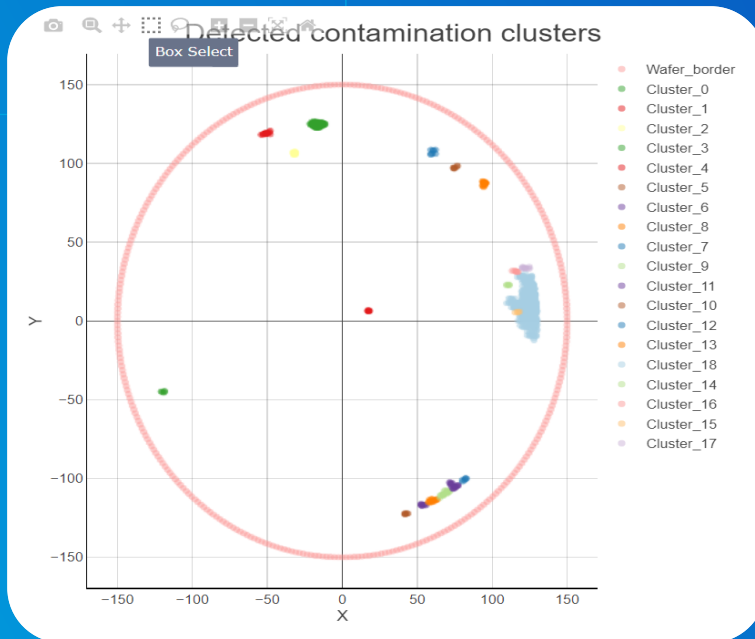


Wafer contamination detector A KNIME made prototype in the Litho industry.

Dr. Eng. Ignacio G. Alonso
KNIME , Berlin 2023



April 26, 2023



ASML purpose



ASML in figures

ASML

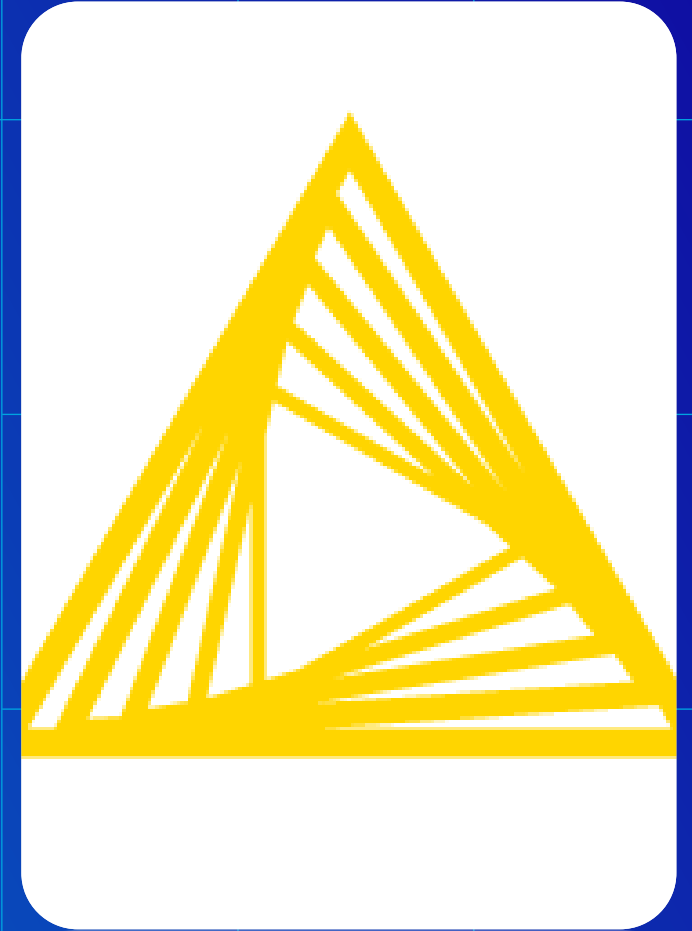
2022

Our year in numbers

ASML is (sometimes) in the news (let's see first 1'40'')



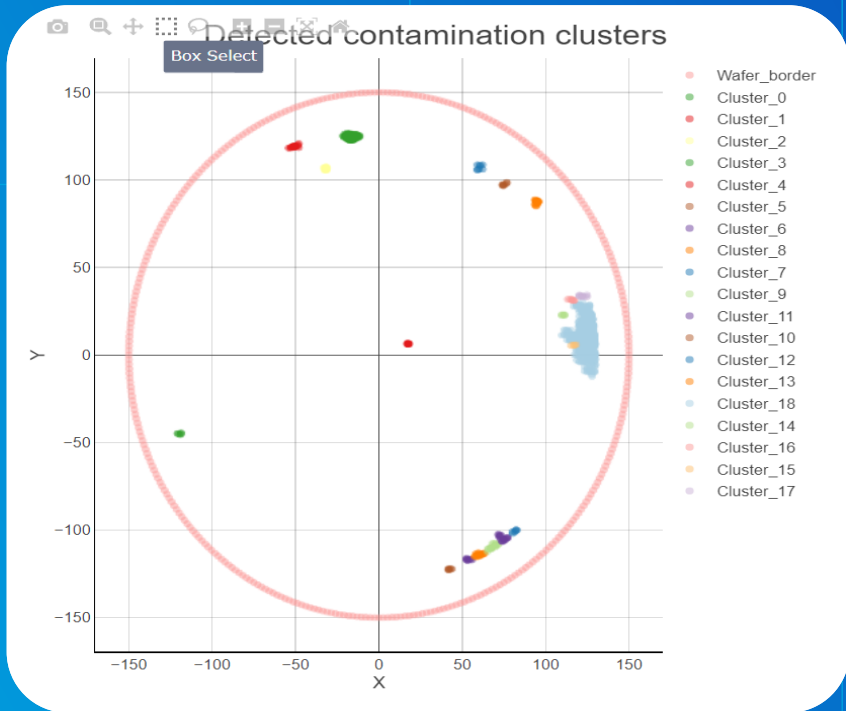
And yes, yet, we use KNIME sometimes



KNIME as a grass root initiative(s)

- *Somewhere 6 years ago I started using KNIME for my own large SW performance datasets analysis... and when I shared inside ASML the usage started to explode in the company, because of our self-starter's culture fits nicely with Low code for everyone ML learning KNIME approach.*
- *And today: We have a network of more than 800 people that have installed KNIME for completely different use cases:
→ From HR, finance, Development and Engineering, Supply chain management and a very long etcetera....*





Wafer contamination detector a web-based approach

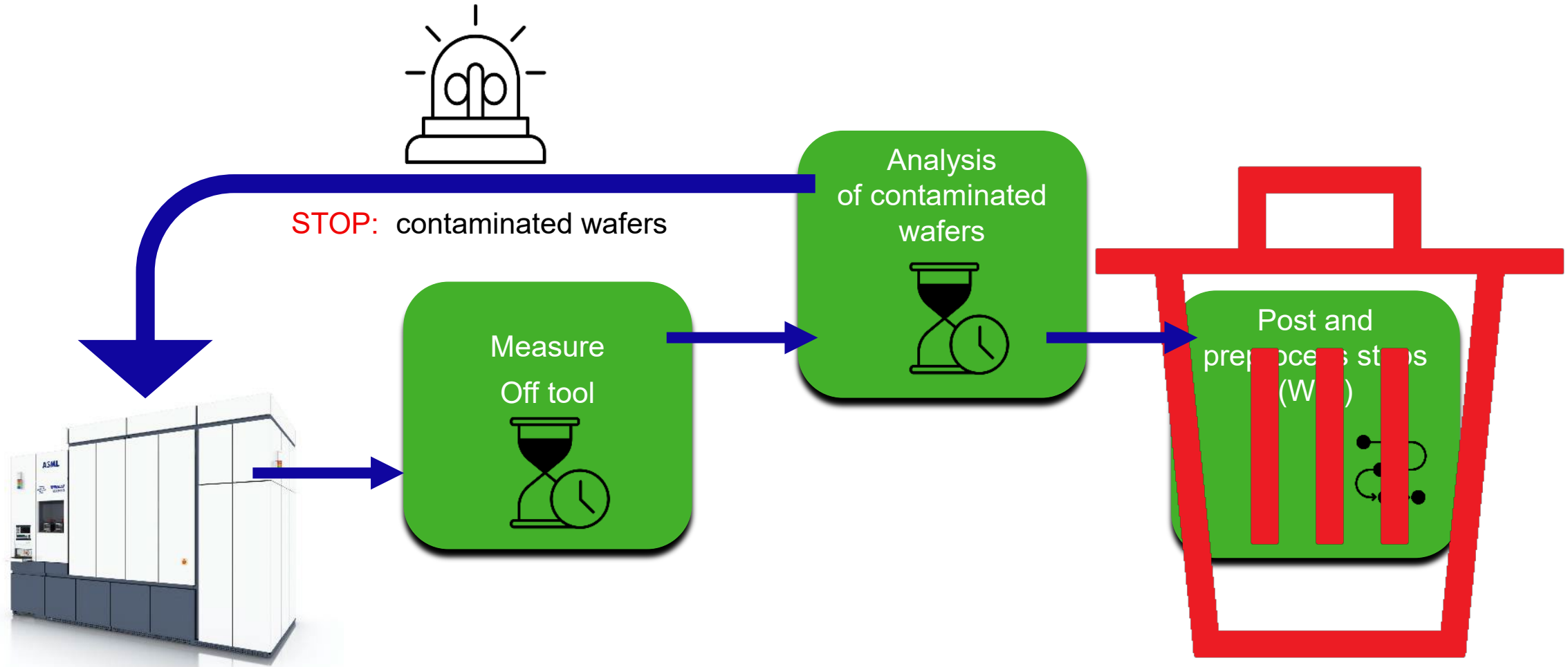
Dr. Eng. Ignacio G. Alonso,
Reza Hajiahmadi, Maurice Wimmer, Bram Schoenmakers & Joost de
Haan
KNIME , Berlin 2023

April 26, 2023, previously presented in:

SEMICON® EUROPA

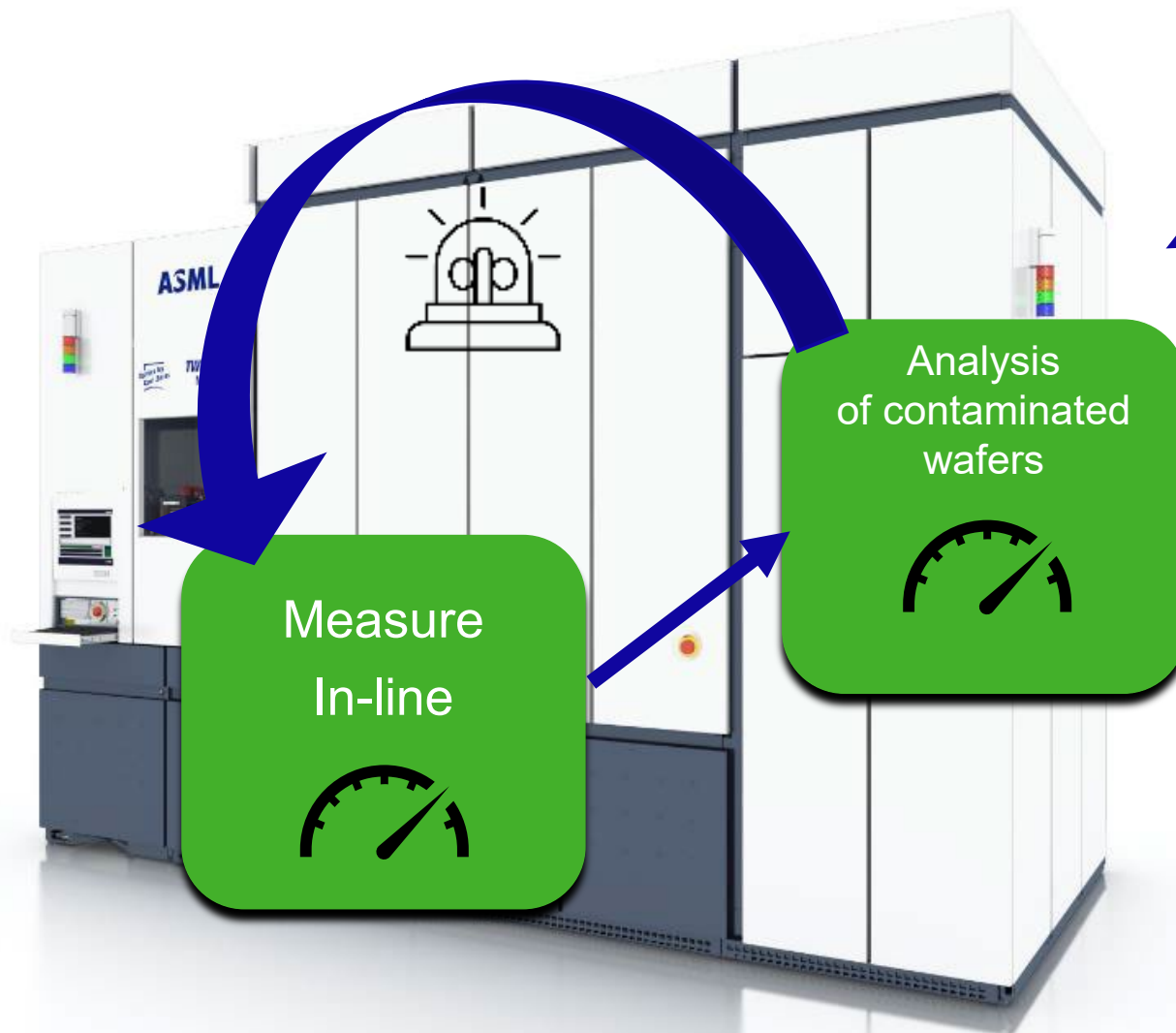
CHIPS POWERING THE DATA AGE

Problem statement



The solution

Inline- and continuous monitoring



This real time monitoring solution reduces wafer scrapping (with no need for off *Tool* measurements)

ASML

SECS Control:

Disabled

Date: 10/06/2022

Screen Control:

OIU

Machine: AT

User: ASML

Knime_asml_learmathon_WZM_JHCM_RHDF_MWNR_Merge_2022-06-10_12.13.02 - WebPortal - Mozilla Firefox

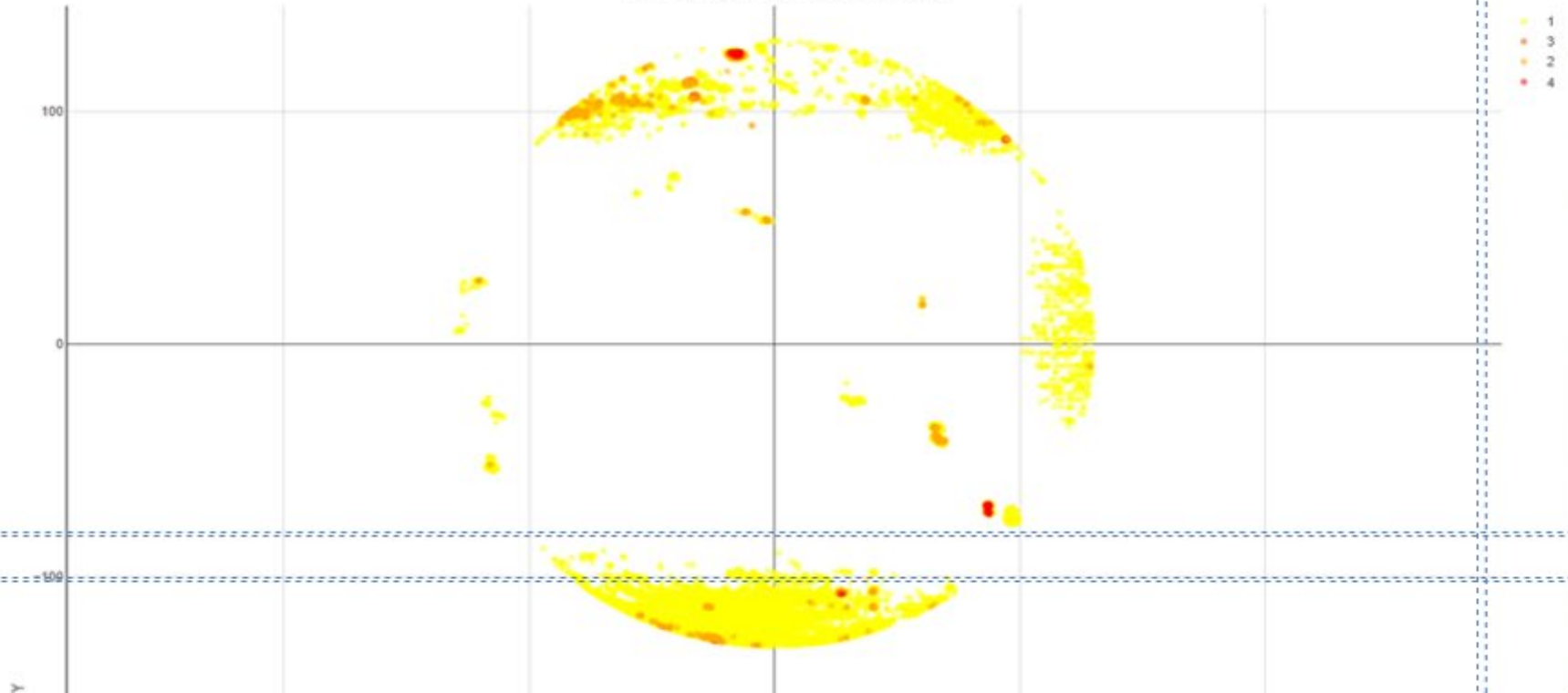
Knime_asml_learmathon... x

https://dhh-8443/knime/webportal/space/workflow_sharktank/Knime_asml_learmathon_WZM_JHCM_RHDF_MWNR_Merge_2022-06-10_12.13.02

<input type="checkbox"/>	Machine	LotID	WaferID
<input type="checkbox"/>	Machine	LotID	WaferID
<input type="checkbox"/>	Machine	LotID	WaferID
<input type="checkbox"/>	Machine	LotID	WaferID
<input checked="" type="checkbox"/>	Machine	LotID	WaferID
<input checked="" type="checkbox"/>	Machine	LotID	WaferID
<input checked="" type="checkbox"/>	Machine	LotID	WaferID
<input checked="" type="checkbox"/>	Machine	LotID	WaferID

Refresh

Multiple wafers overlapped



Solution Benefits

Which customer value does the concept brings?



Follow up with ASML

ASML

Learn more about ASML



Connect with like-minded professionals



Join meetups and masterclasses



Inspire and be inspired

Scan me to learn more about the use case



Thanks



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Veldhoven