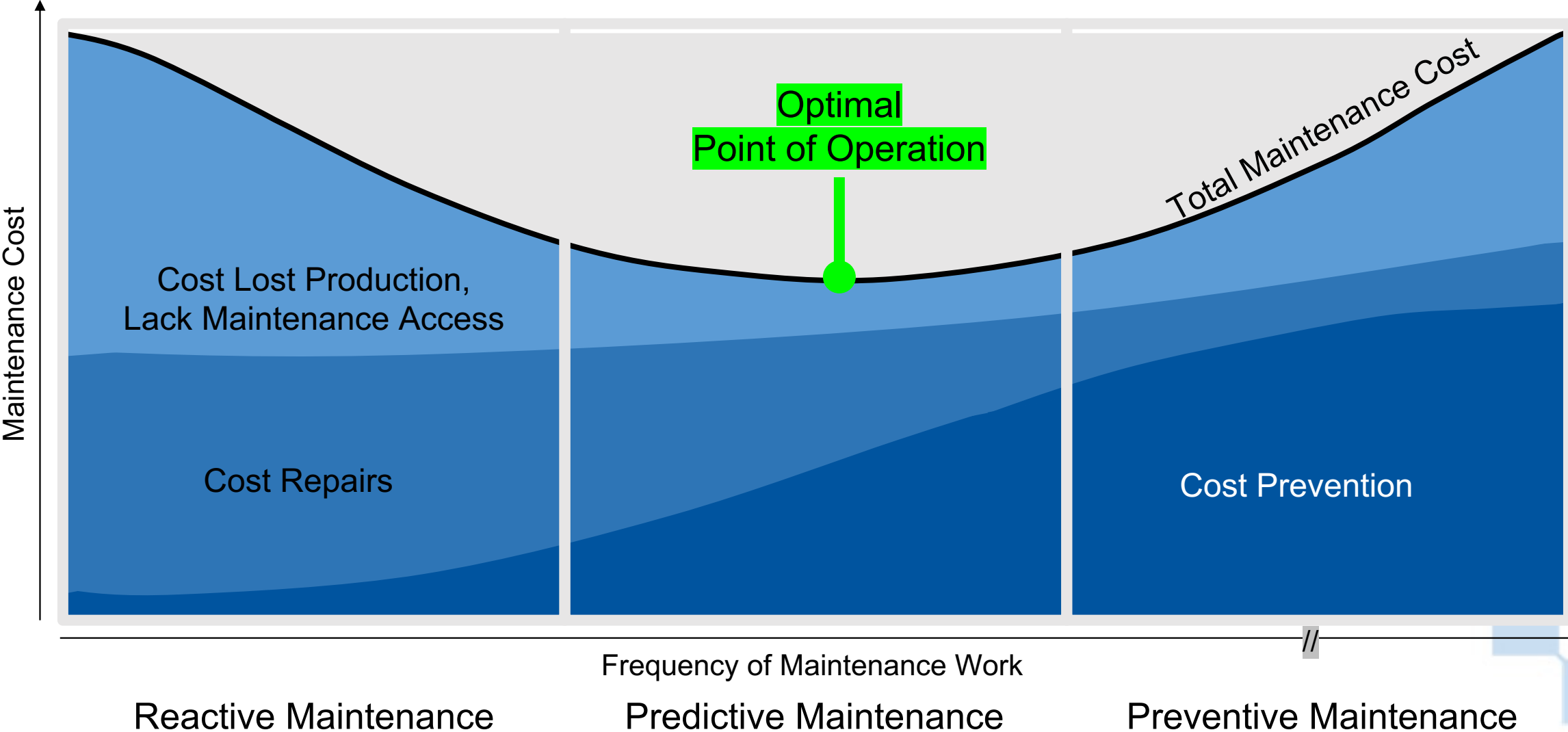




**Predictive Maintenance: AI applied in the Machining Industry**  
Dr Benny Drescher, Nov 23, 2021

The shift towards predictive maintenance ensures product quality and reduces maintenance cost.

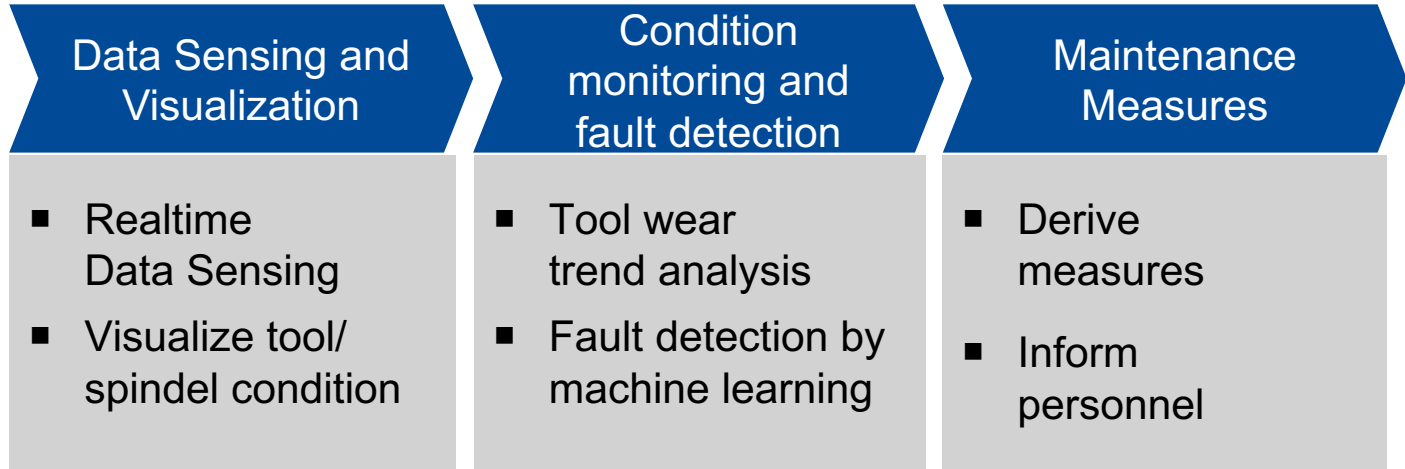


Source: Life Cycle Engineering, PS Manual Preventive and Predictive Maintenance (Accessed 10/2020)

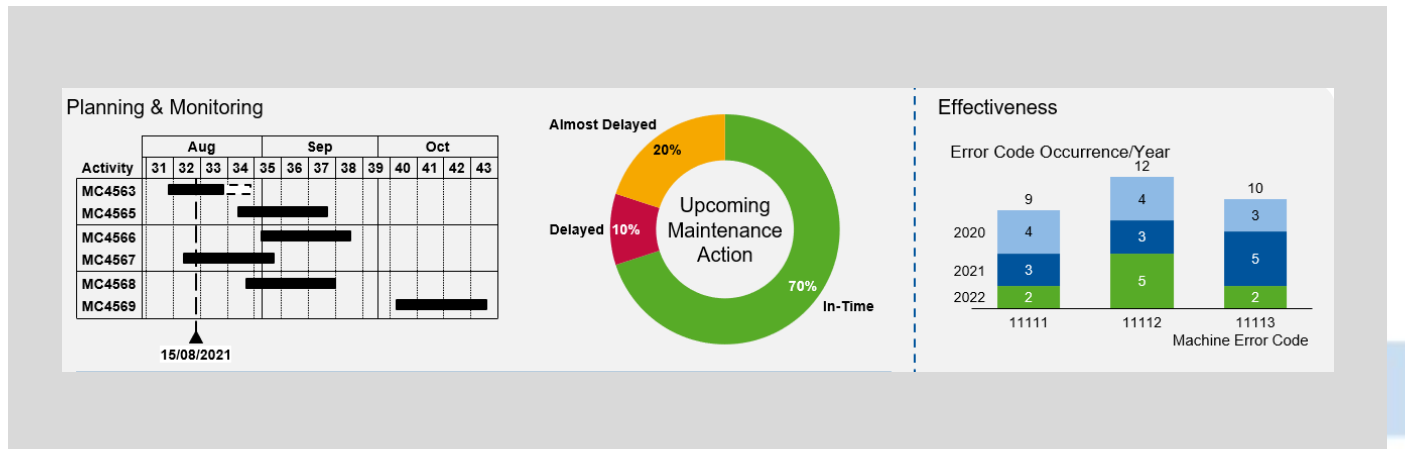
FLAIR conducts an applied research project for prediction of tool wear and tear and schedule maintenance actions of CNC machines.



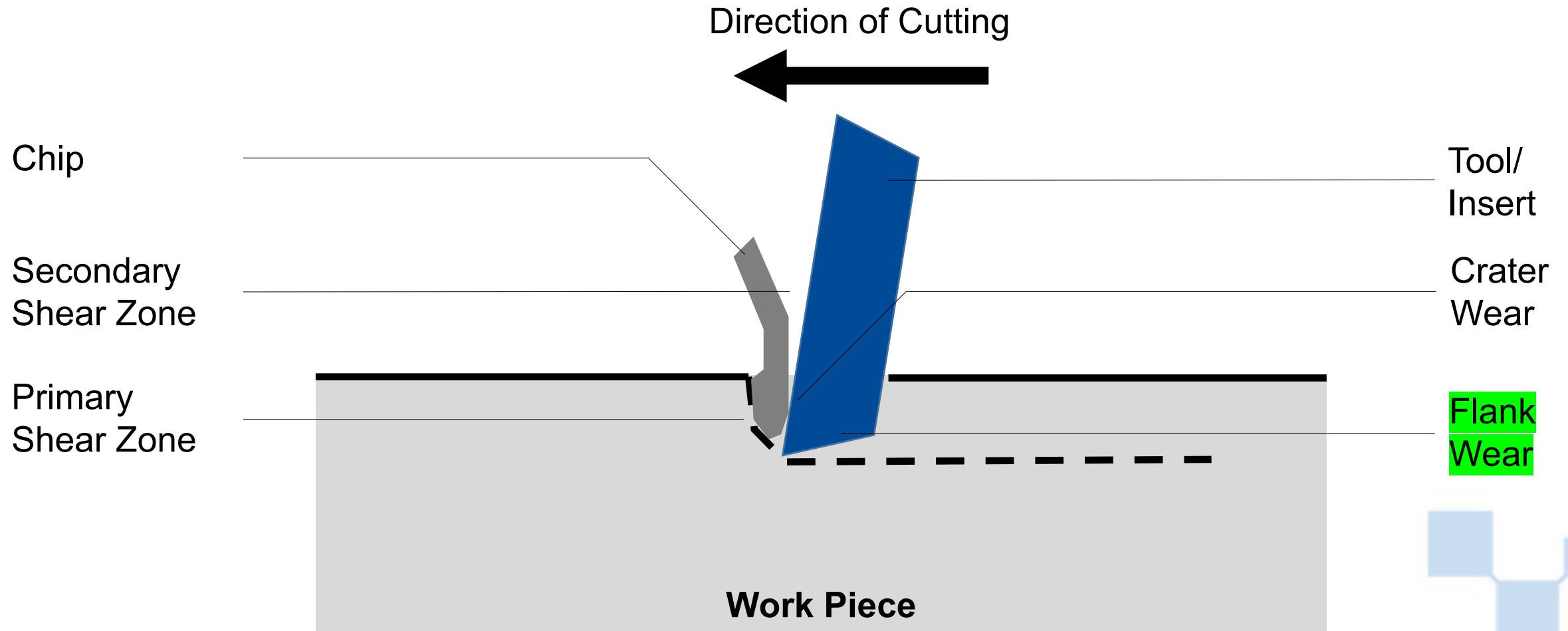
**Objective 1:**  
Predict wear and tear of cutting tools



**Objective 2:**  
Plan and schedule maintenance actions



Flank wear is the result of abrasion and occurs at the tool flank where it contacts with the finished surface of the work piece.



Hong Kong Industrial Artificial Intelligence and Robotics Centre  
香港工業人工智能及機械人研發中心

Unit 1207-1211, 12/F, Building 19W, Hong Kong Science Park, Shatin, NT, Hong Kong  
香港新界沙田香港科學園19W 1207-1211

<https://www.hkflair.org>

