

010101010110000101101011
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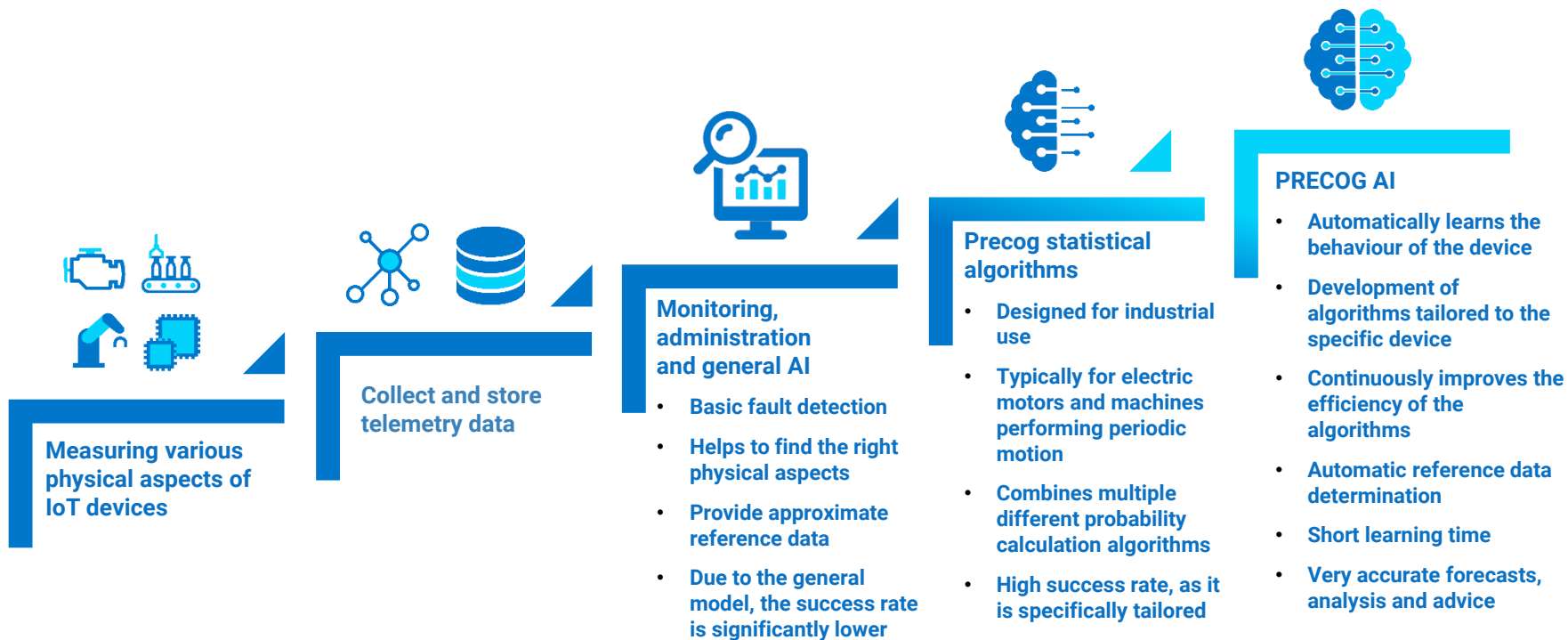
PRECOC G

PREDICTIVE INDUSTRIAL SENTINEL AI

TELLS THE FUTURE

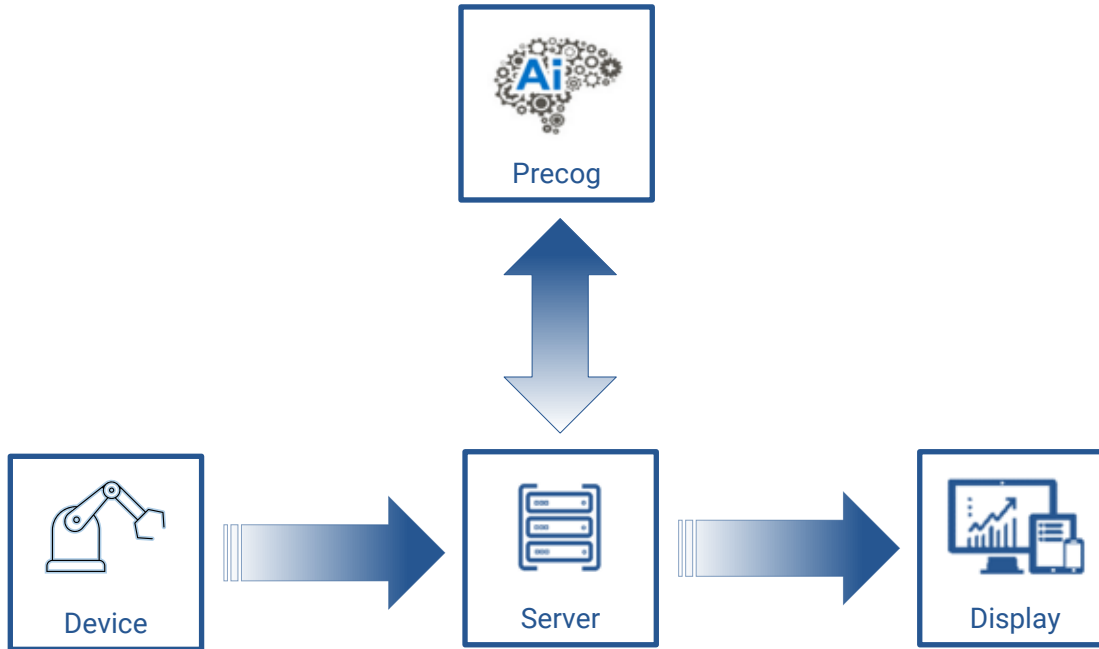
Go beyond monitoring: Automate analysis to take actions

- The **PRECOG** product **can predict** the failure of an **electric motor two weeks in advance**
- Works with **DC, single-phase AC, and three-phase AC** electric motors that can be part of complex machines
- Precog enhances operational safety by preventing downtime
- It can be used for water and oil pumps, production lines, robotic arms, railway turnouts, and **essentially any complex equipment** that contains an electric motor or electronics where the high availability is crucial.
- Precog is a smart maintenance forecasting AI software with **over 90% success rate**
- It **continuously improves** as the AI learns and adapts to specific devices
- **COST EFFECTIVE**: Precog **lowers operational costs**
- Logistics and maintenance costs can be reduced -> Green solution



If any level is missing,
we offer consulting and complete project execution.

Precog can be accessed via a web API interface over the internet or on-premises.

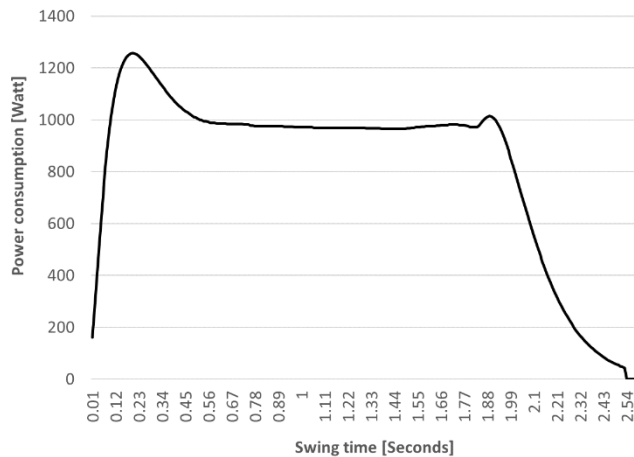


TELECOMMUNICATIONS



RAILWAYS

Please check out our website for more information:
<https://vidasoftservices.com/precog/case-studies/>



30% REDUCTION IN MAINTENANCE COSTS

75% REDUCTION IN UNPLANNED SITE VISITS AND FALSE ALERTS

50% IMPROVEMENT IN DETECTION RATE

40% REDUCTION IN DOWNTIME

ZERO UNPLANNED MAINTENANCE

14 YEARS OF EXPERIENCE

NEURAL NETWORKS

PRECOG UTILIZES 14 DISTINCT PROBABILISTIC ALGORITHMS

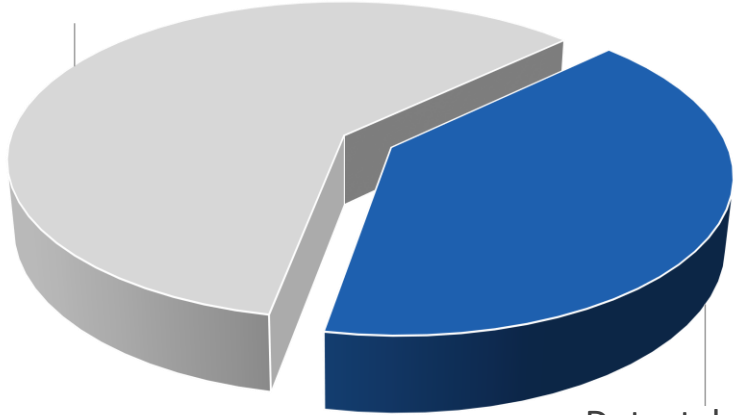
**TRAINED WITH MORE THAN 7 BILLION
MEASUREMENT DATA POINTS**



Boundary values & thresholds detection method

Undetectable faults,

60%

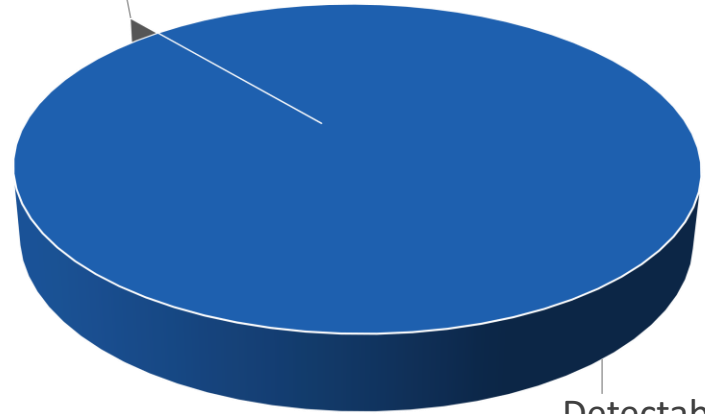


Detectable faults,
40%

PRECOG accurate predictions for all faults

Undetectable faults,

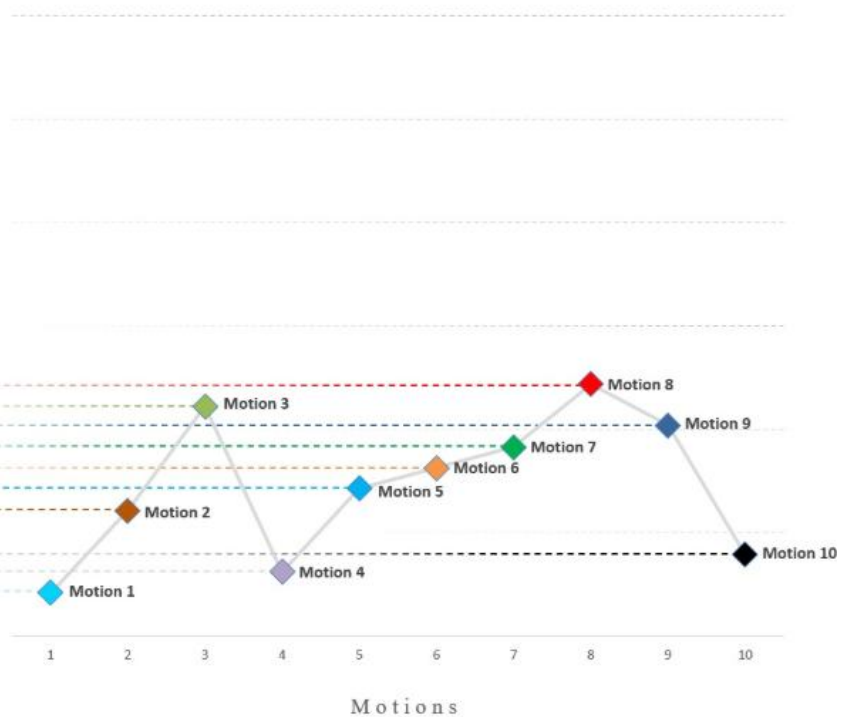
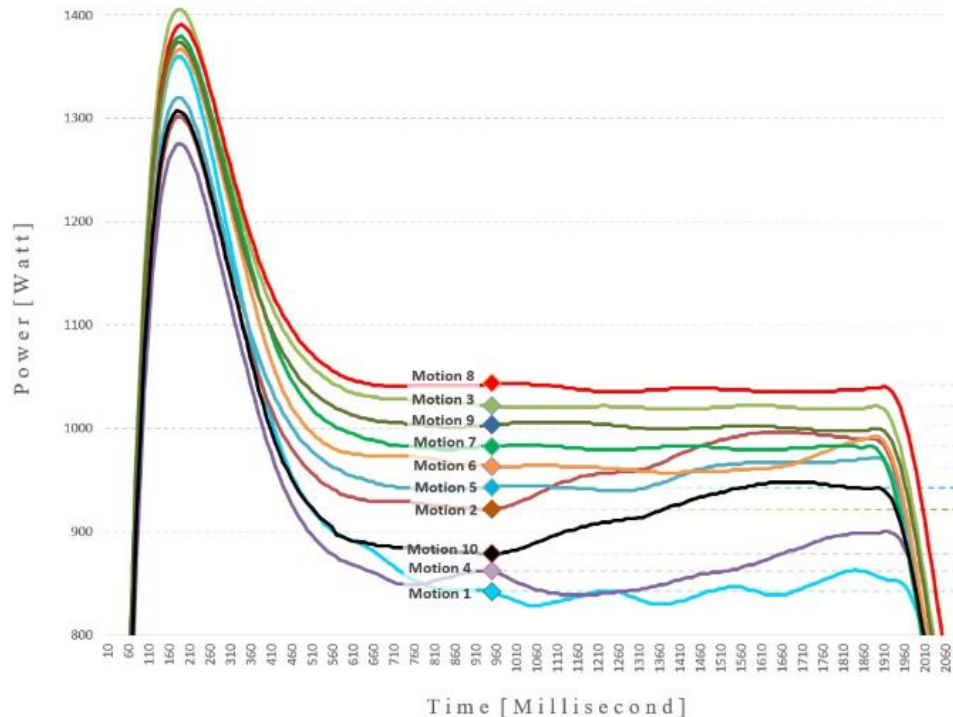
0%



Detectable faults,
100%

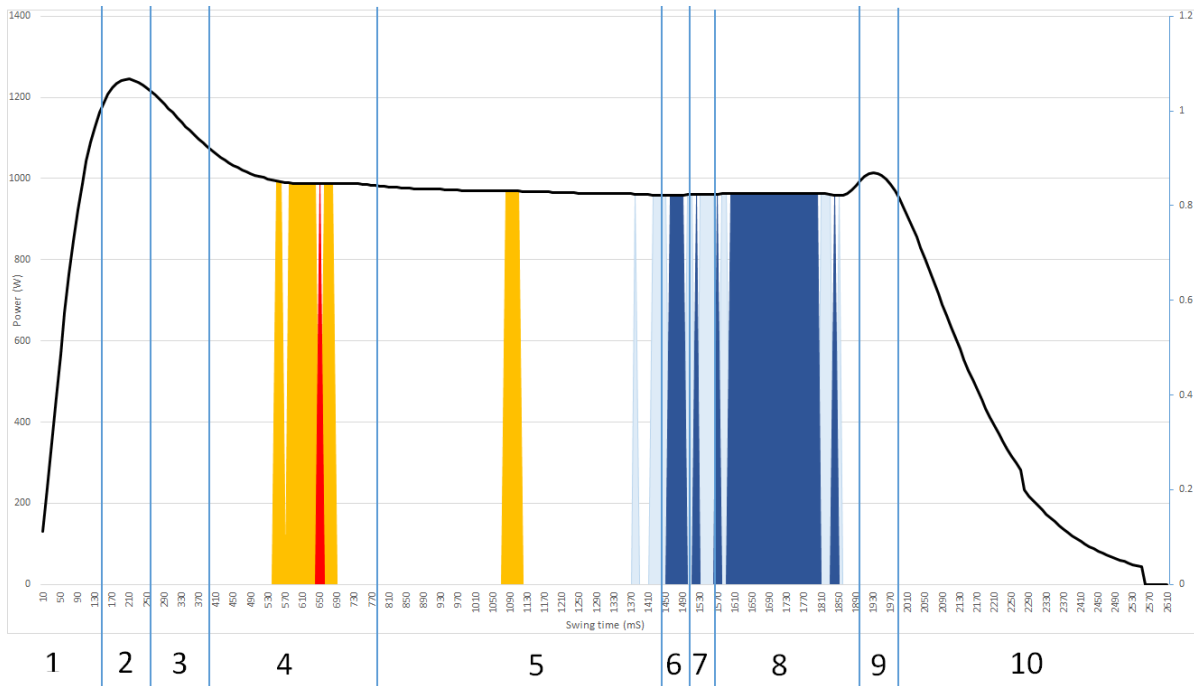
Precog is not only able to detect significantly more errors but also provides accurate predictions.

Process each point on the timeline



Deformed switch blade

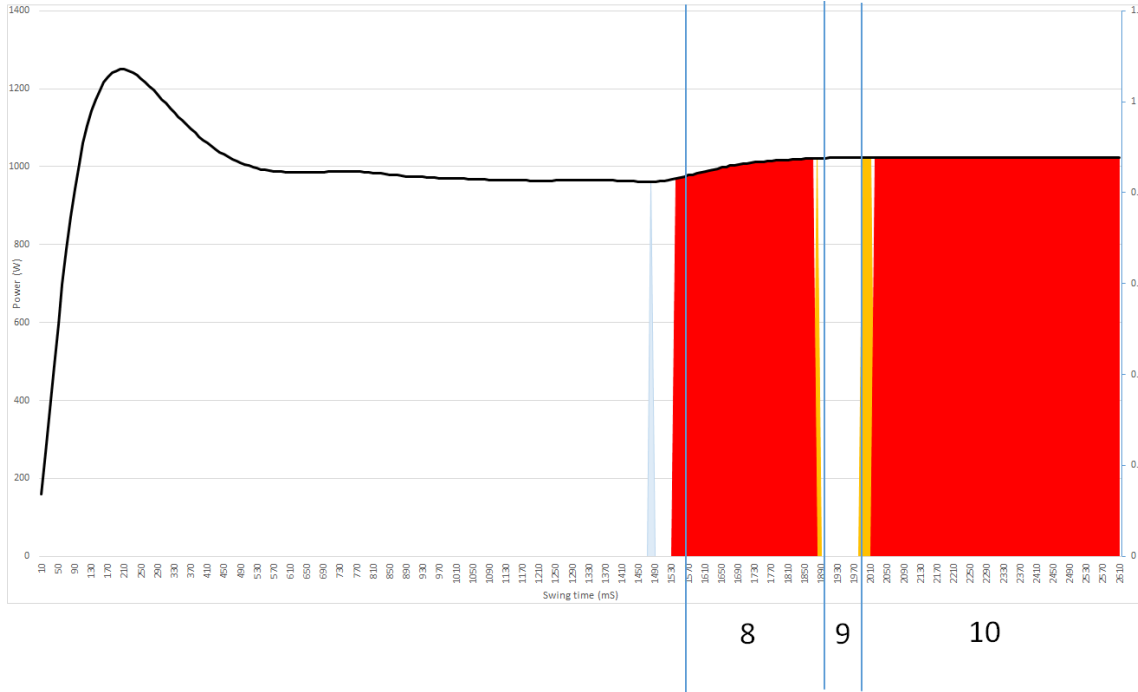
The recipe



Section	Relevant	Percentage	Range of motion
1-3	x	> 90%	Inside
4	x	> 30%	Above
5	x	> 80%	Inside
6	x	> 30%	Outside
7	x	> 15%	Outside
8	x	> 60%	Below
9	x	> 50%	Inside
10	x	> 90%	Inside

Each section is evaluated against the recipe to identify the fault.

Abnormal operation due to extraneous material

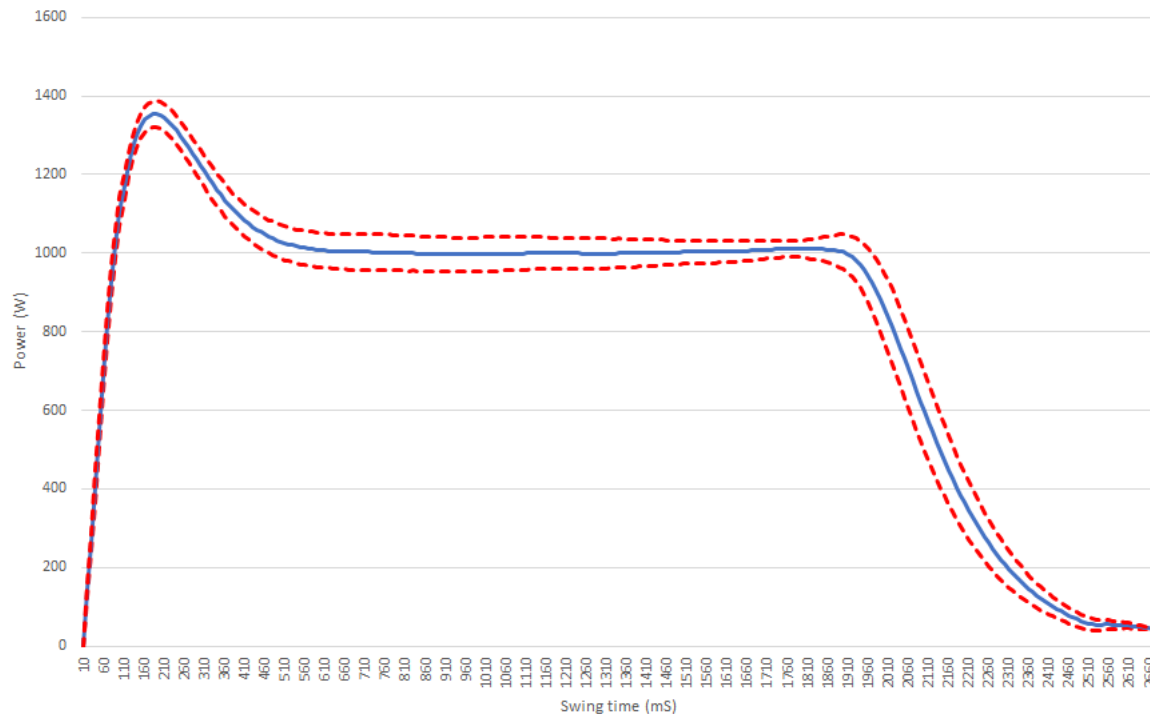


Section	Relevant	Percentage	Range of motion
1-7	-		
8	x	> 70%	Above
9	-		
10	x	> 85%	Above

PRECOG also works for faults that can be detected by boundary value and threshold detection methods, so it is sufficient to use the PRECOG approach.

Select relevant reference curves

- to reduce noise
- adapt to each asset



- Easy to try
 - Download examples
 - Use your own data

<https://vidasoftservices.com/tryprecog/>





VIDA SOFT

Thank you

Contact us:



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