



DiagSign

Non supervised mode

(no a priori available data)



Equipment



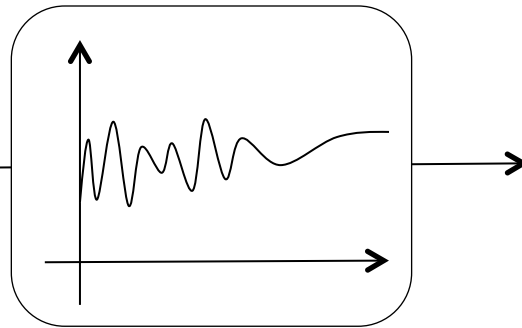
You have a precious equipment
for which you seek a predictive maintenance strategy



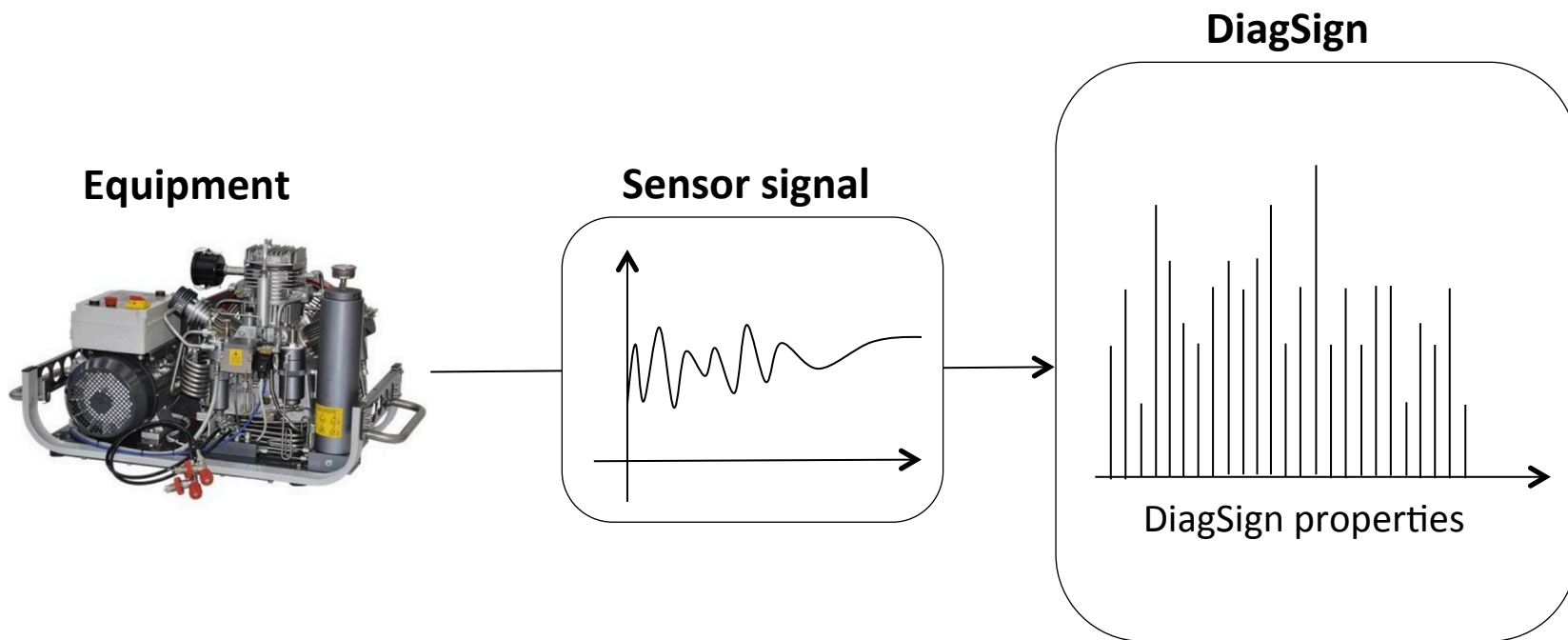
Equipment



Sensor signal



You have sensor(s)
Measuring some relevant quantities of your equipment



DiagSign extracts unlimited number of highly discriminant **features** from a signal

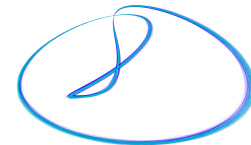


You have a precious equipment
for which you seek a predictive maintenance strategy

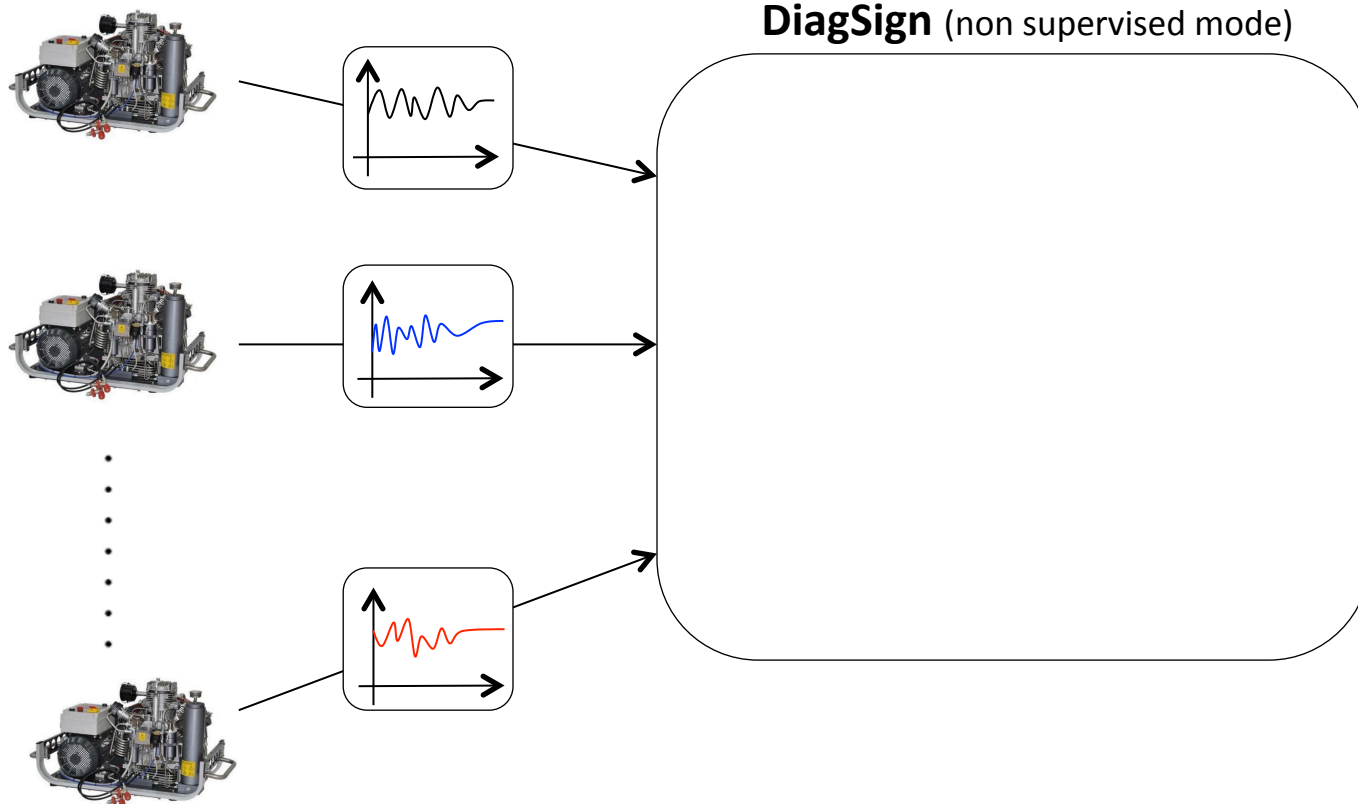
On-the-fly Learning Phase ...



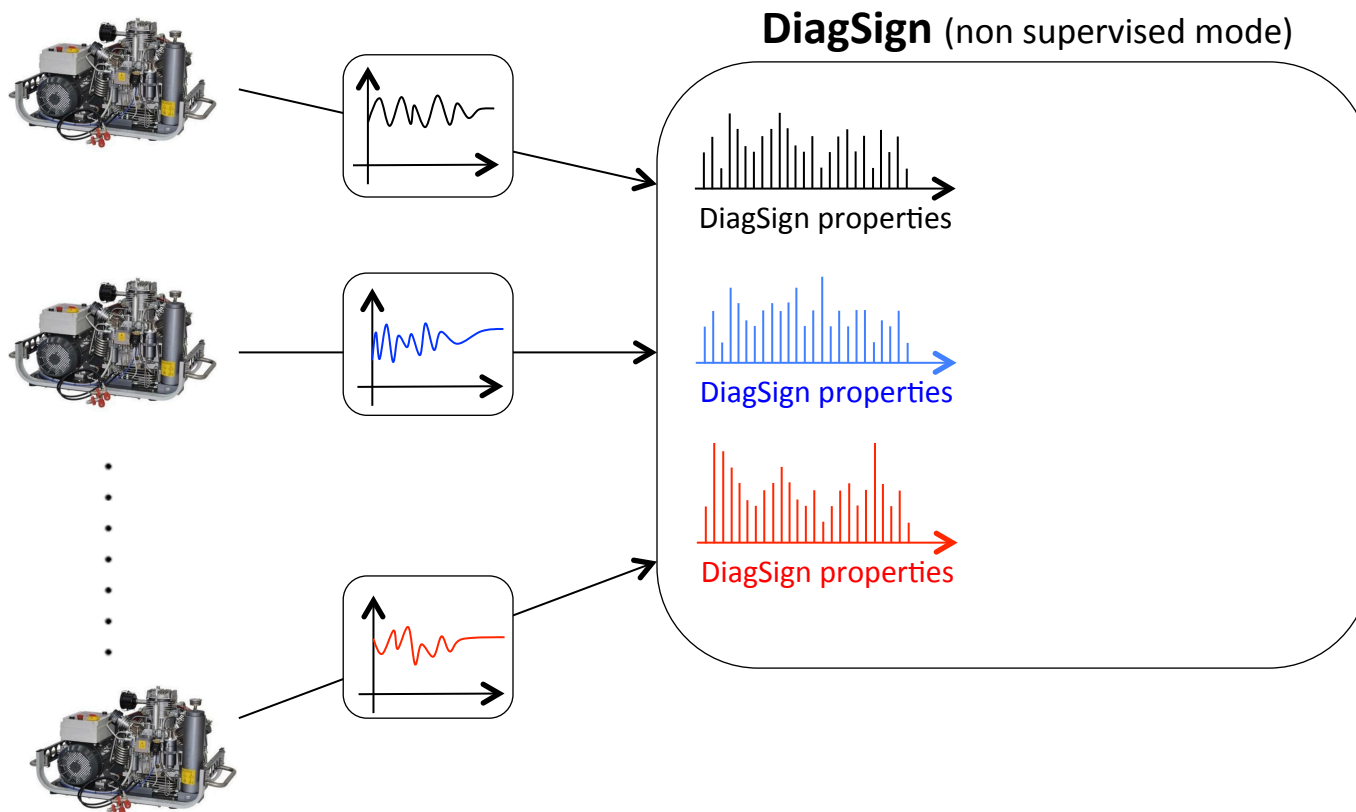
You have a cluster of similar equipments ...



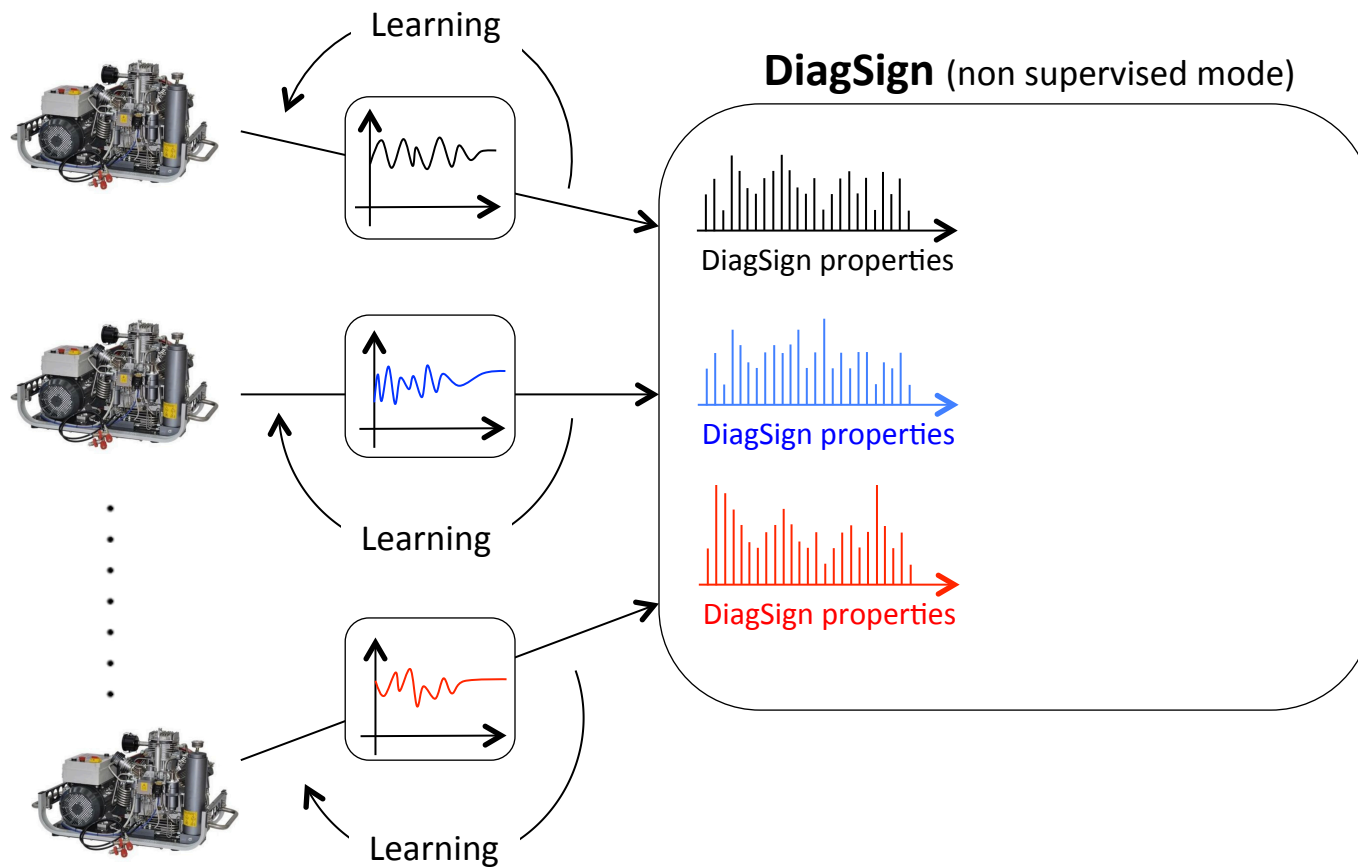
DiagSign (non supervised mode)



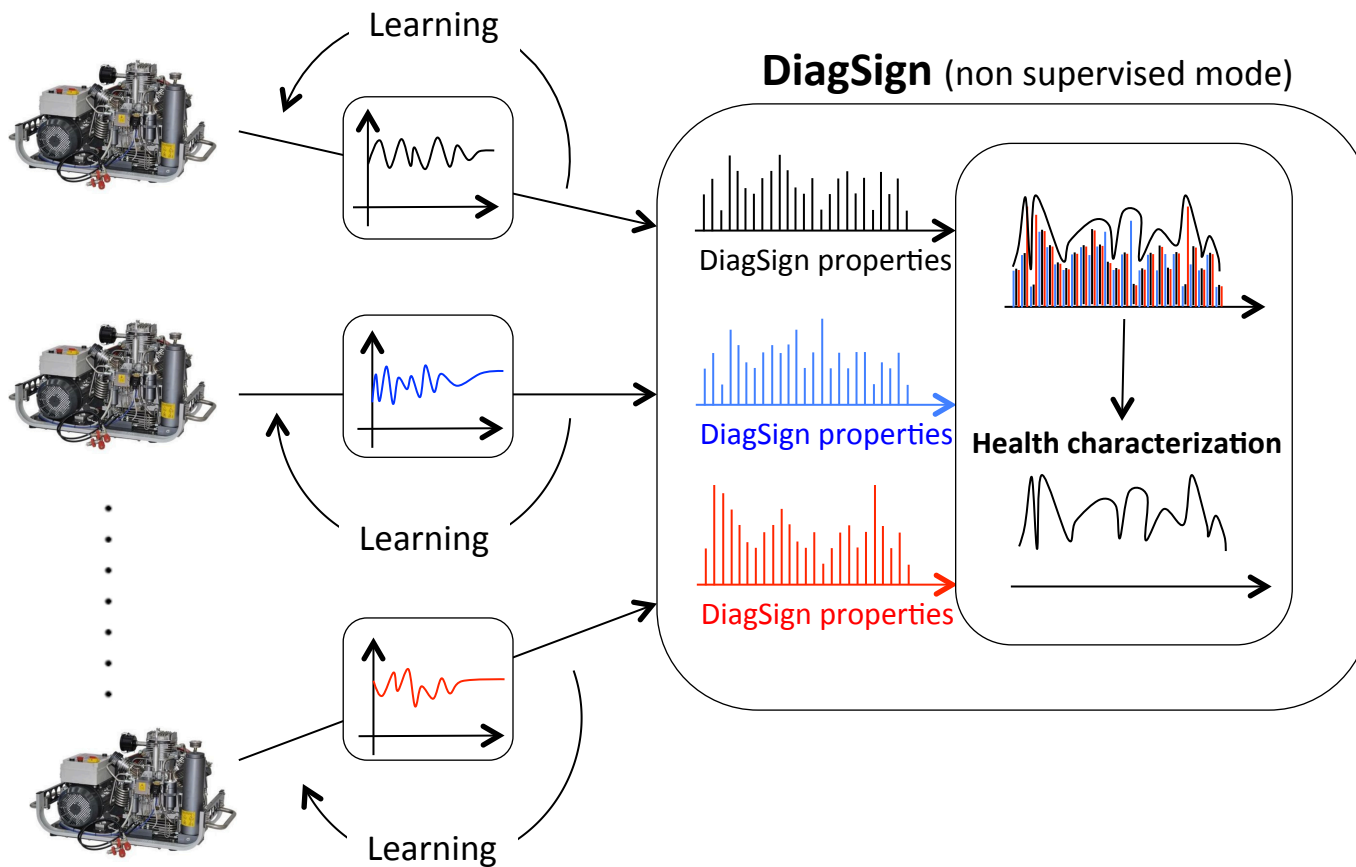
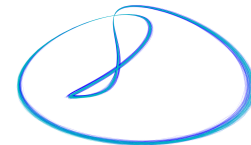
Each equipment sends its measurement to the DiagSign server ...



DiagSign generates the corresponding features ...



This is repeated during the first presumably healthy periods ...

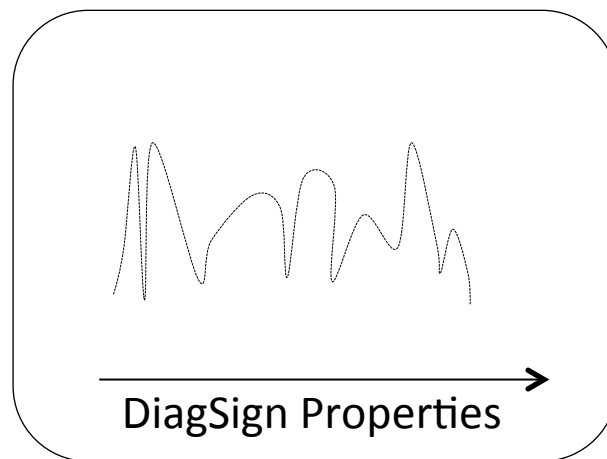


DiagSign derives an upper bound
for each property under healthy state

Exploitation mode ...



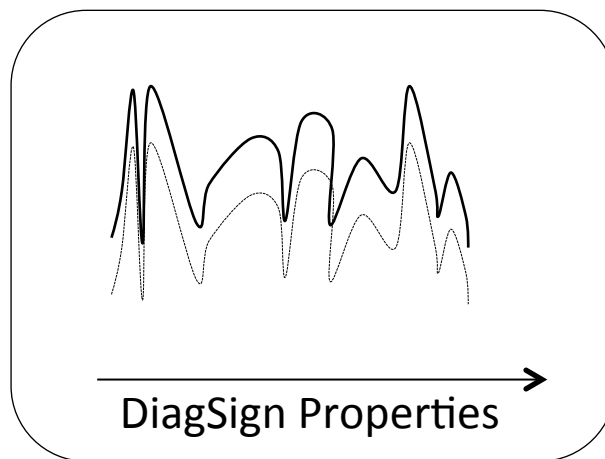
DiagSign Health Bound



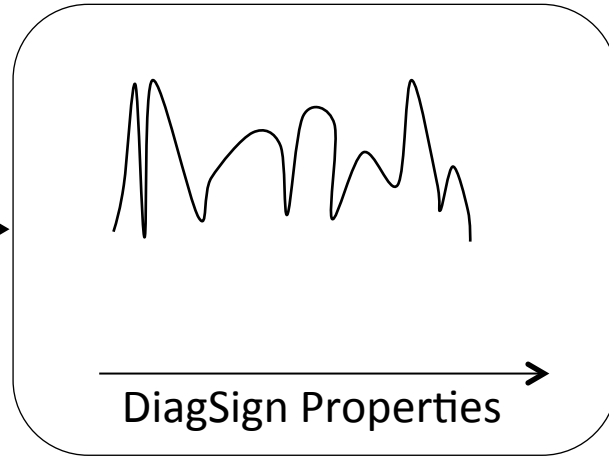
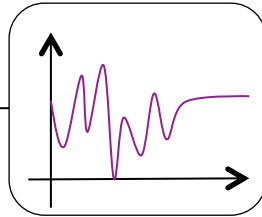
Based on the so designed bounds ...



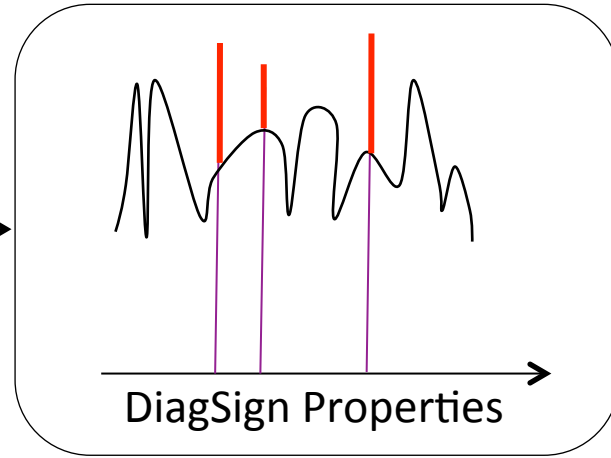
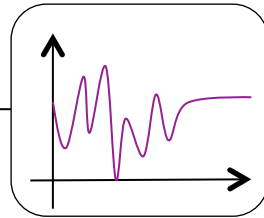
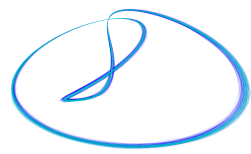
DiagSign Health Bound



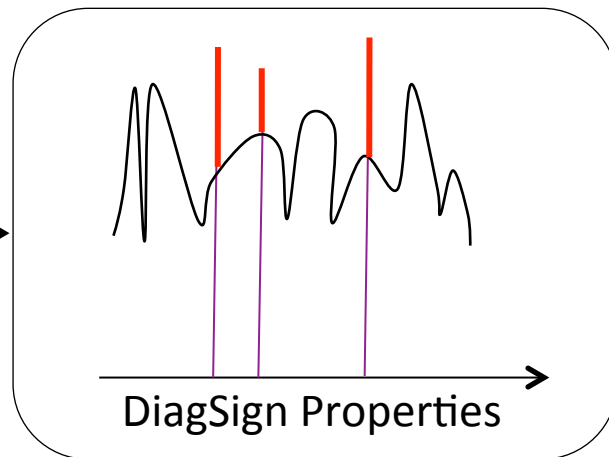
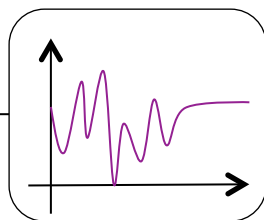
A careful threshold is defined ...



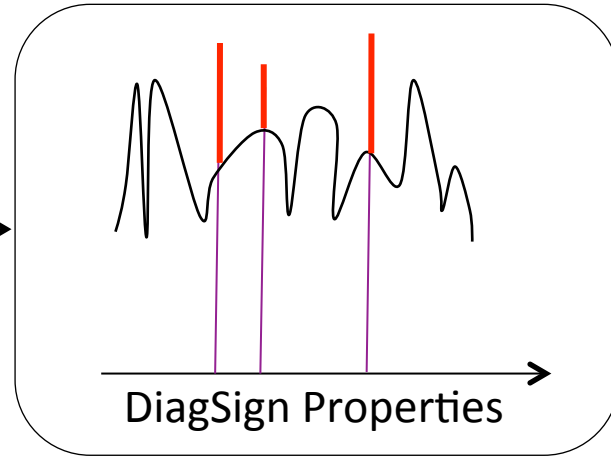
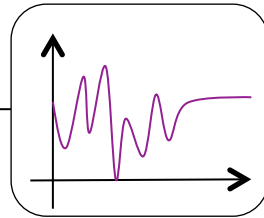
For each new coming measurement ...



DiagSign computes a subset of (or all) the features



Only when the threshold is violated,
An inspection/maintenance is fired ...



This reduces the cost of the maintenance inspections
and increases the availability of the equipment

Only when the threshold is violated,
An inspection/maintenance is fired ...

This defines a road map for
Predictive maintenance from scratch

Without any a priori available data

However, if data is available,
The process can be accelerated and
the result improved

Anyway,
Why don't you start now?

Curious to learn more about
DiagSign other modes:

Please visit:

<http://www.linksium.fr/projet/diagsign>