



Intelligent monitoring system – INPIRIO AS is the process of monitoring a parameter of condition monitoring

(VIBRATION, TEMPERATURE, RELATIVE DISPLACEMENT, AIR GAP, ETC.)

IT IS A MAJOR COMPONENT OF PREDICTIVE MAINTENANCE

IMS ALLOWS MAINTENCE ALL THE TME — DEVELOPING TRENDS IN CONDITION BEFORE A FAILURE OCCOURS

Intelligent Monitoring System — unique beneffit in conditions that would shorten normal lifespan can

BE ADDRESSED BEFORE THEY DEVELOPE INTO A MAJOR FAILURE, MAINTENANCE PLANNING CAN BE, AND WITH US IS

INTELLIGENT

SPECIALITY TO PREDICT



INTELLIGENT MONITORING SYSTEM

INTELLIGENT MONITORING SYSTEM — IMS TECHNIQUES ARE MOR, ALLY USED ON ROTATING EQUIPMENT AND OTHER MACHINERY (IT CAN BE APPLIED ON ALL KIND OF RIDES EQUIPEMENT)

IT IS SO CAPABLE AND SIMPLE, THAT CAN APPLY TO ALL KIND OF AMUSEMENT RIDES:

- PENDULUM RIDE, DROP TOWER, WATER RIDE, TRAIN RIDE, SWING RIDE AND ROLLER COASTERS
- SOLUTIONS FOR PROCESSES
- EASY INTEGRATION WITH AREITY OF SENSORS
- HIGH PERFORMANCE OF SYSTEM
- PROCESSING REAL TIME ANALYSIS
- WIDE DIAGNOSTICS REAL TIME
- IMS INTEGRATION (VIBRATION, TEMPERATURE, WINDING, ETC.

"QUALITY IS NEVER AN ACCIDENT; IT IS ALWAYS THE RESULT OF INTELLIGENT EFFORT"





- PREDICTION OF LIFE ECPECTANCY
- Perform diagnostic work at ALL time
- Intense and detailed real time processing of the system
 - PREVENT VARIOUS SCALE OF RISKS WE CONSTANTLY MEASURE RISK EXPOUSER OF YOUR SYSTEMS (RIDES)
- Database Storage
- Data Analysis from our side 24/7

ONE OF THE MAIN PURPOSE

INTELLIGENT MONITORING ANALSYS IS TO PROVIDE YOU A RISK MITIGATION



APPLICATIONS OF INTELLIGENT MONITORING SYSTEM

CAPABILITES - CAN APPLY TO ALL KIND OF SYSTEMS

- Pendulum Ride
- DROP TOWER
- WATER RIDE
- TRAIN RIDE
- SWING RIDE
- ROLLER COASTERS
- ETC.

CAPABILITES FOR ALL KIND OF SYSTEMS (RIDES), INCREASED ASSER RELIABILITY TO MANAGE INDUSTRY PROFITABILITY CONSTRAINS.

SOLUTIONS FOR PROCCESES, IMS INTEGRATION SUCH AS:

VIBRATIONS, TEMPERATURE, WINDING, ETC.

AND VARIETY CLARIFICATIONS FOR IMS CRITICAL EQUIPMENT INTEGRATION.



INTELLIGENT MONITORING SYSTEM - CHARACTERISTICS

Intelligent Monitoring System have three different kind of levels, each of them is simple, capable, strong and unique with special characteristics

WE CALL THEM: CASTOR, DOM, ZERMATT

CASTOR — BASIC BUILDING BLOCK OF THE IMS SYSTEM, PROCESSING UNIT WITH AN EMBEDDED WEB APPLICATION FOR MACHINE STATE MONITORING, AND DIGITAL OUTPUTS FOR ALARM / DANGER NOTIFICATIONS

DOM — CLUSTERING INTO ONE SECURE HUB FOR EASY-TO-ACESS MACHINE STATE MONITORING OF ALL MACHINES WITH BASIC PREDICTIVE MONITORING CAPABILITIES

ZERMATT — CLUSTERING INTO ONE HIGHLY SECURED HUB FOR EASY-TO-ACESS TO MACHINE STATE MONITORING OF ALL MACHINES ON ONE OR MORE GEOGRAPHICALLY SEPARATE DOM LOCATIONS WITH ADVANCED MONITORING CAPABILITIES



FEATURES OF INTELLIGENT MONITORING SYSTEM



IMS FEATURES

EXPERT ON-LINE MONITORING SYSTEM FOR LOW VOLTAGE INDUCTION MOTORS OF ALL POWERS AND SIZES

APPLICABLE FOR MOTORS WITH CAST CAGE ROTORS AND SQUIRREL CAGE

MODULAR AND UPGRADEABLE SYSTEM FOR NEW, AS WELL FOR EXISITING INDUCTION MOTORS

LONG TERM DATA STORAGE AND IMPORTANT EVENTS TRACKING

RESTRICTIVE CLASS BASED DATA ARCHIVING (SMART/REAL TRENDING)

LOCAL AND REMOTE SYSTEM ACCESS

REPORTING BASED ON REAL TRENDING

DETECTION OF PROBLEMS RELATED WITH BEARINGS, ECCENTRICITY AND ROTOR CAGE

UNIQUE APPROACH FOR ALL INTEGRATED EQUIOMENT

PREVENTIVE MAINTENANCE OF KEY EQUIPMENT

PLONGER LIFE EXPECTANCY

REDUCTION OF COSTS DUE THE UNPLANNED STOPS CAUSED BY MACHINE FAULTS

PARTICIPATIONS OF USERS IN CREATION OF UNIQUE BASED ON CUSTOM REQUEST

PREVENTION RISKS THROUGH INTELLIGENT MONITORING SYSTEM

Gradation is applied through levels, in order to manage the crisis of managment. **IMS** is reduceing taking chance of risks especially for the risk managment. Massive need of Risks Mitigation to reduce systems, machinesm industries, etc. exposures and to protect your property, solution is **I**ntelligent monitoring system **IMS**.

- 1. SET OF SUITABLE 'TOOLS' INTELLIGENT MONITORING SYSTEM
- 2. CHEHERENT APPROACH TO TRAINING AND COMMUNICATION TO PEOPLE SO THAT THEY CAN USE THOSE TOOLS IN A COMPETENTANT AND CONSISTENT MANNER INPIRIO TRAINING AND EDUCATION

WE CONSTANTLY HELPING YOU MEASSURE THE RISK EXPOSURE OF YOUR SYSTEMS

ACCOUNTABILLITY FOR RISKS AND MOST IMORTANTLY, FOR CONTROLS AND MONITORING ASSURANCE OF CONTROLS IS CLEAR AND NOT DOUBTFUL.





DATA SECURITY INTELLIGENT MONITORING SYSTEM



DATA SECURITY

- MODERN, TESTED AND HIGHLY SECURE CRYPTOGRAPHIC ALGORITHMS (TLS 1.2) AND FULLY END-END ENCRYPTON WE ENSURE THE COMPLETE PRIVACY FOR OUR CLIENTS
- Secure connection does not lower speed, still depends on the bandwith provided by the ISP

HTTPS FOUR OUR WEB APPLICATION DOES NOT ONLY MEAN THOUGH SECURITY,
BUT ALSO AN INCREAS IN SPEED

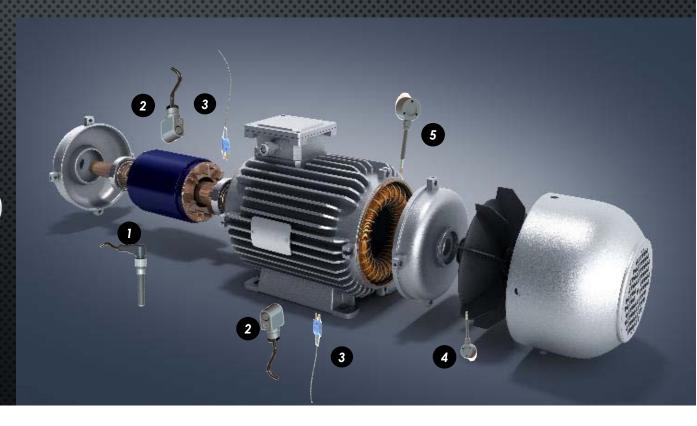
CONCEPT OF INTELLIGENT MONITORING SYSTEM



MORE THAN HUNDRED SENSORS FOR VARIOUS MEASURMENTS AND CAN BE ADAPTED TO MEET CUSTOMER SPECIFIC REQUIREMENT

SENSORS:

- 1. DISPLACEMENT SENSOR (BEARING/SHAFT)
- 2. VIBRATION SENSOR (BEARING)
- 3. TEMPERATURE SENSOR (BEARING)
- 4. MOTOR CURENT SENSOR (CONNECTION BOX)
- 5. MAGNETIC FIELD SENSOR (AIR GAP)



SUMMARY



PERFORMANCE:

- WE ARE USING OUR BROAD EXERINECE TO SUPPORT EFFORTS TO MAXIMIZE AVALIABILITY AND RELIABILITY, AND OPTIMIZE PROCESS PERFORMANCE AND MAINTENANCE PLANNING

ASSUERED QUALLITY:

- Our equipment is built to last as we provide units with extended temperature range and IP range up to IP69

MODULARITY:

 OUR SYSTEM IS COMPLETLY MODULAR, SO NEW MEASURMENTS CAN BE EASILY ADDED WITHOUT SYSTEM DOWTIME, OR WITH AS LITTLE DOWNTIME AS POSSIBLE

USER FRIENDLY:

- Web interface with our system is completly user-friendly, and can be tailor-made to the clients specific wishes

EASY IMPLEMENTATION:

- IMPLEMENTATION OF OUR SYSTEM IS MADE TO BE EASY AND WITH AS LITTLE DOWNTIME AS POSSIBLE

SMART TENDING:

- FOR THE HIGHEST LEVEL OF THE SYSTEM (ZERMATT) — SMART TRENDING IS OFFERED — TRENDING OF ALL DATA WITH A SPECIFIC, OR MULTIPLE RESTRICTIVE CLASSES IN MIND

