

Asset Optimization through Knowledge Management

Copernicus Technology Ltd (CTL) announces NOVA: the unique data system that has been developed to support organisations maintaining and operating complex systems.



NOVA is an attitude supported by a tool:

- Mine & merge data islands
- Present complex information simply
- See the Real Picture
- Focus on the required results

Enabling you to see the Real Picture:

Islands of Data

- Draw together sources of stand-alone data into a cohesive whole.

Correlate in Time

- See trends, runners and repeaters by platform or across the enterprise.

Target the Rogues

- Pick out Processes, Platforms, Systems and Components that cause inordinate waste.

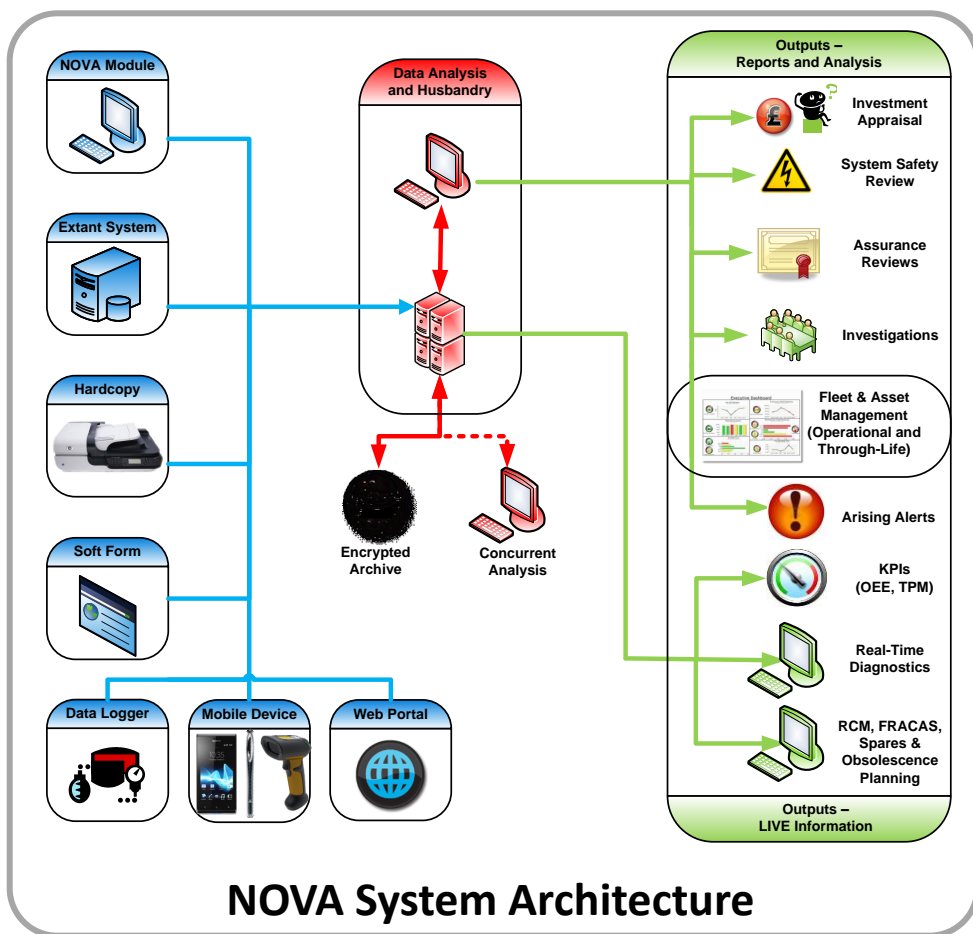
Fully-Educated Decisions

- What is really hurting the enterprise?
- What is the best course of action?
 - Are you making Assumption-based or Knowledge-base decisions?

Improved Safety

Improved Availability

Reduced Cost



NOVA System Architecture

Data Capture

NOVA Module



Extant System



Hardcopy



Soft Form



Data Logger



Mobile Device



Web Portal



Capturing the right information is important, but so is capturing that data without disrupting output. NOVA can be fielded in a flexible and scalable manner to maximize effectiveness and minimize roll-out effort for the client. The aim is not to collect more data, but to collect the *right* data and use it more effectively. This helps people see that the system is being applied *to help* them perform their role easier and better.

NOVA Modules

- Data captured LIVE
- May need dedicated hardware
- Can replace existing systems
- Once established, require minimal effort to harvest and husband data
- Set-up process enables best data to be gathered
- Range from Spreadsheet solutions to mobile Apps
- Includes integration with NODES™ Test System Software

Extant Systems:

- Harvest large quantities of existing data
- Automatic filtering for poor data
- Exploits existing infrastructure, practices and training
- Relies on existing infrastructure, practices and training
- Readily implemented
- Require some process and effort to maintain data currency

Hardcopy Records:

- Rapid Capture hardcopy forms
- Advanced double-sided scanning
- Automatically divided, sorted, encrypted, identified and stored
- Identified by OCR, Barcode or sticker
- Stored and viewed as PDF
- Any typed data can be extracted and imported automatically

Soft Forms:

- Batch Import of multiple Forms
- Automatic filtering for poor data
- Legacy data harvest
- Readily implemented
- Require process and effort to maintain data currency

Data Logger

- Bespoke interfaces for Client systems, including test equipment
- Cost-conscious utilization of off-the-shelf equipment
- Natural integration with SPIDER™ - custom data logging system
- Real-Time or post-event capture

Mobile Device

- Capture data efficiently with mobile devices, pen readers, barcode scanners and RFID

Web Portal

- Vendors, customers and remote sites can be integrated without infrastructure costs

Example Data Types



Output Effects

Investment Appraisal:

- Decision-makers provided with the full, real picture
- Problems assessed and prioritised with full understanding of cost and operating effect.

Safety Review:

- All relevant data can be reviewed:
- Easily
- Filtered for relevance
- With supporting evidence

Assurance Process:

- Streamline routine processes
- Collate all information for review and analysis
- Evidence for certificate and review

Investigations:

- Ad-Hoc investigations supported by complete dataset
- Readily filtered, organised and assimilated by investigators
- Easy to 'dive deep' following areas of interest
- Gets best results, faster

Executive Dashboard:

- Bespoke interfaces for Client needs
- Live or collated and analysed for reporting
- Real-time situation, trends and criticalities
- Enables operational asset management and through-life fleet management

Arising Alerts:

- Set for high impact problem events
- Manage cost, safety or performance issues before divergence sets in

Key Performance Indicators:

- Designed and implemented to enable the client to manage the right issues, at the right time, towards the right outcomes

Real Time Diagnostics:

- Runners and repeaters visible to maintainers
- Previous work and results instantly available
- Overcomes location and staff turbulence – everyone sees the Asset's full history
- OEE measures improved

Integrated Logistics:

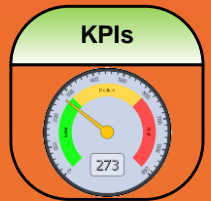
- FRACAS is optimised by timely and accurate data
- Supports parts stock burn-down & re-provisioning
- Educates Obsolescence Management
- Total Productive Maintenance programme optimized

Additional Modules for:

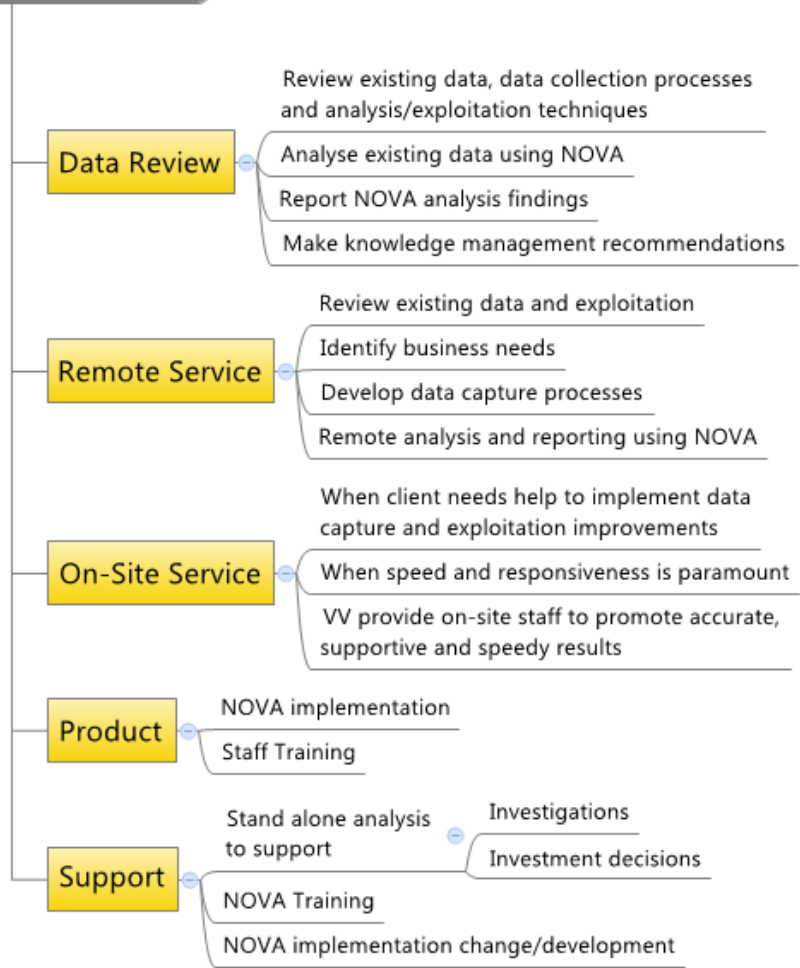
- Asset Management & Stock Control
- Tool Control
- Maintenance Management System
- Health & Usage Monitoring

NOVA is:

Quantifying and qualifying how much individual systems, components and processes are hurting the business, so that clients can fix the important things first.

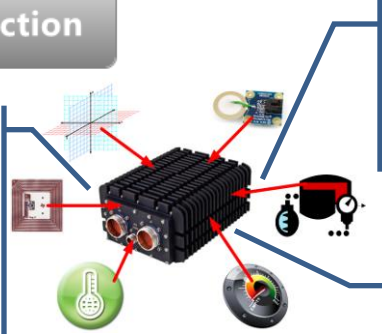


NOVA Solutions



SPIDER Data Collection

- 3-axis motion
- 3-axis accel_n
- GPS
- Environmental data
- User defined – ‘System Parameters’ using multiple digital & analog channels



- Bespoke design & certification
- HUMS
- Data Harvest

- Store up to 10 years of data, or
- Downlink via Wi-Fi, Ethernet or manual
- Real-time or scheduled timescales

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