



DESIGNER,  
INTEGRATOR,  
OPERATOR OF  
MISSION-CRITICAL  
SYSTEMS



IKATS



## User benefits

- > Valorization of your hidden data
- > Disruptive data driven mindset
- > New capabilities offered to your operational experts
- > Efficiency and productivity
- > Open Source community

## Fields of application

- > Smart Manufacturing: Embedding sensors in manufacturing machines to improve asset reliability, availability and performance
- > Aeronautics: Analysis of Aircraft Data Sensors to predict potential equipment failures
- > Transportation: use network data and inspection technologies to increase security
- > Smart Cities: Internet of Things architectures for energetic transition
- > Health Care: Patient remote monitoring Analytics of Health signals

# Innovative toolKit for Analyzing Time Series

## Keep an eye on your Sensors Data

Leveraging advanced Time Series data Analytic tool, IKATS unlocks the power of your data by combining scalability, Big Data analytics and Data Visualization. IKATS makes accessible state-of-the-art R&D results.

With the increasingly widespread use of communicating sensors (accelerometers, RFID chips, GPS, etc...), the volume and complexity of the data produced is exploding. To take full advantage of this deluge of data, it is crucial to provide powerful and full-integrated data analysis tool. Allowing this tool to be accessible to citizen data scientists like operational users will unleash the power of data.

Within a single framework, IKATS provides the user all the necessary software for handling, exploring, analyzing and visualizing Time Series.

## Key features



## IKATS functions

### Handling

- > Extended set of pre-processing TS\* library
- > Large TS\* and Dataset manipulation

### Analyzing

- > Innovative Algorithms dedicated to TS\*
- > Transformation of TS\* into new variables for Data Mining
- > Un/Supervised Machine Learning

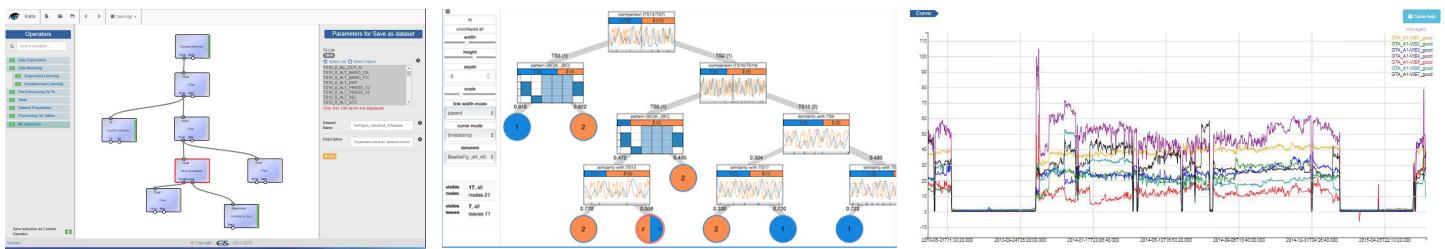
### Visualizing

- > Large TS\* Visualization
- > Interactive model visualization

### Exploring

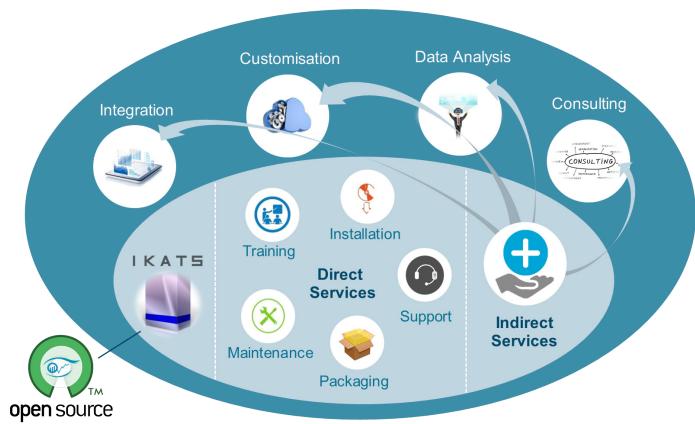
- > Easy to use workflow sequences
- > Capitalization on previous analyses
- > Customization capabilities

\*Time Series



## CS Services Associated Offering

## A successfull collaborative project



IKATS is issued from a collaborative R&D: with CS, LIG (Grenoble), AIRBUS and EDF. This project has been co-financed by "Programme d'Investissements d'Avenir".

**www.c-s.fr**

## ABOUT CS

As prime contractor in the design, integration and operation of mission-critical systems, CS is present all along the value chain for its customers. With a turnover of €176M and 1,800 employees, CS is an established supplier acknowledged by its major customers thanks to the expertise & commitment of its staff.