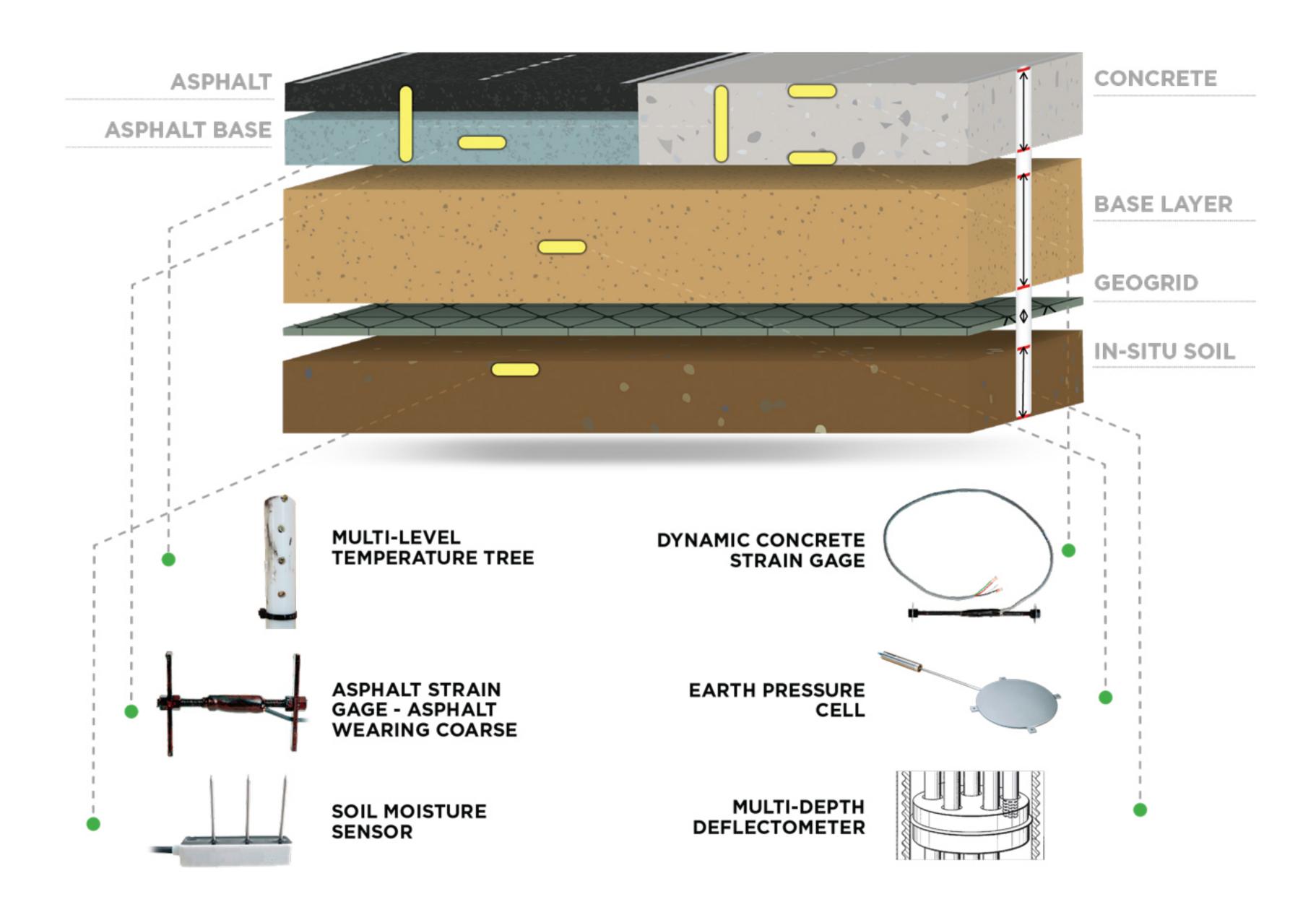
PAVEMENT MONITORING





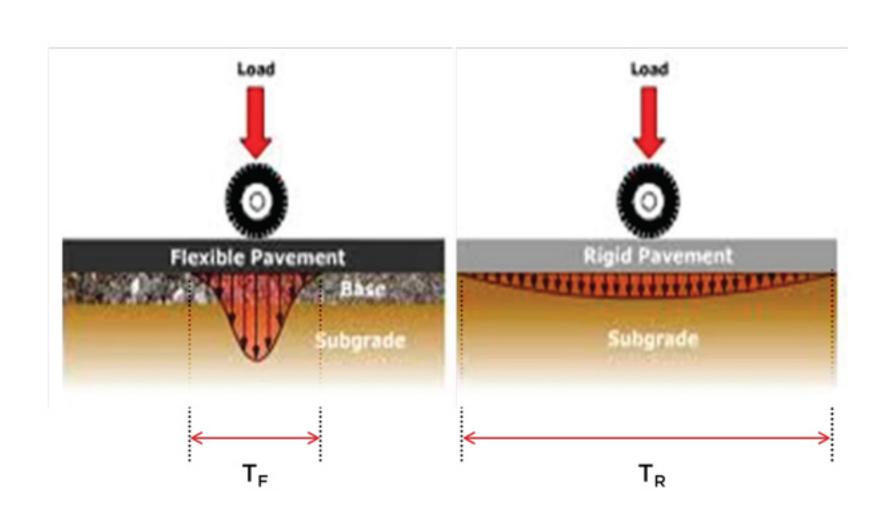
WHAT WE MEASURE



Sample Speed Rate

To define the influence zone curve under T_F and T_R , we recommend a minimum of 30 data point with a much more accurate curve developed with 60 data points.

Data Rates	35mph (60 kph)	75mph (120 kph)
TF: 30 data points	171 S/s	365 S/s
TF: 60 data points	342 S/s	731 S/s
TR: 30 data points	64 S/s	136 S/s
TR: 60 data points	127 S/s	227 S/s



HOW WE MEASURE IT

Based on our successful STS4 architecture, we have developed a modular Structural Monitoring System that can be applied in laboratory research projects or large scale, high-speed, permanent monitoring systems. We've once again taken the lessons learned over hundreds of monitoring projects and put them into the design of our hardware. With simple power and communication options, our systems sample up to 1,000 S/s and coupled with easy-to-configure software, they can be designed and installed more efficiently than anything else on the market.



4- OR 16-CHANNEL TERMINAL NODES



CORE DATA LOGGER



MONITORING ACCESSORIES

HOW WE MANAGE DATA



PLATFORM INTERACTIVE DATA HOSTING

Data hosting through Microsoft® Azure that allows:

- + Simple and secure data measurement
- + 24/7 staffed service center
- + Custom alerts and notifications
- + Advanced graphing options



ONLINE SENSOR MANAGEMENT

DATA TRANSFER

- + **STS-SYNC:** Microsoft® Windows® application to collect data on a defined schedule.
- + Client Servers: The Core Data Logger can be configured to push data to a client designated server.



SETUP/CONFIGURATION

- + **STS-MONITOR** is used for configuring the system, either remotely or through direct on-site connection.
- + Systems can be preconfigured by BDI or by the Client.

PAVEMENT SENSORS



STRAIN GAGES

DYNAMIC ASPHALT DYNAMIC CONCRETE



SOIL COMPRESSION GAGES



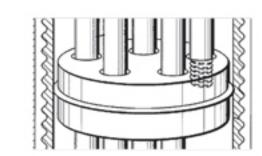
TEMPERATURE TREE



EARTH PRESSURE CELL



SOIL MOISTURE SENSOR



STRAIN GAGES

MULTI-DEPTH DEFLECTOMETER (MDD)



PRESSURE TRANSDUCER



FOIL GAGE +
COMPLETION MODULE



THERMISTOR

BACKGROUND

Accelerated Pavement Test Facilities/Vehicles





FAAs National Airport Pavement Test Facility

- + 1000+ Sensors
- Concrete Strain Gages
- + Asphalt Strain Gages
- + Temperature Trees
- Soil Compression Gages
- + Soil Pressure Cells
- + Soil Moisture Gages
- + Multi-Depth Deflectometer



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