Better Calibration Better Data Better Decisions

 $(\lambda, \theta_r) \tau_1(\lambda) \tau_1(\lambda) E$



 $a_{i}^{2} = a_{0} + \sum_{i=1}^{4} a_{i} \left(\log_{10} \left(\frac{Rrs_{490}}{Rrs_{555}} \right) \right)$

Vicarious Calibration Network

www.flare-network.com

What is **FLARE**

A global vicarious calibration network

On-demand signals and analysis for any imaging sensor in overpass



Ensures high value radiometric calibration

Allows high frequency calibration

Provides a foundation for Analysis Ready Data (ARD)

How does **FLARE** work



Satellite is calibrated with accurate radiometric references and minimal atmospheric effects

Mirrors direct sun to satellite





How to access FLARE

Subscriber tasks the network to a satellite

Return signal data and analysis via the cloud

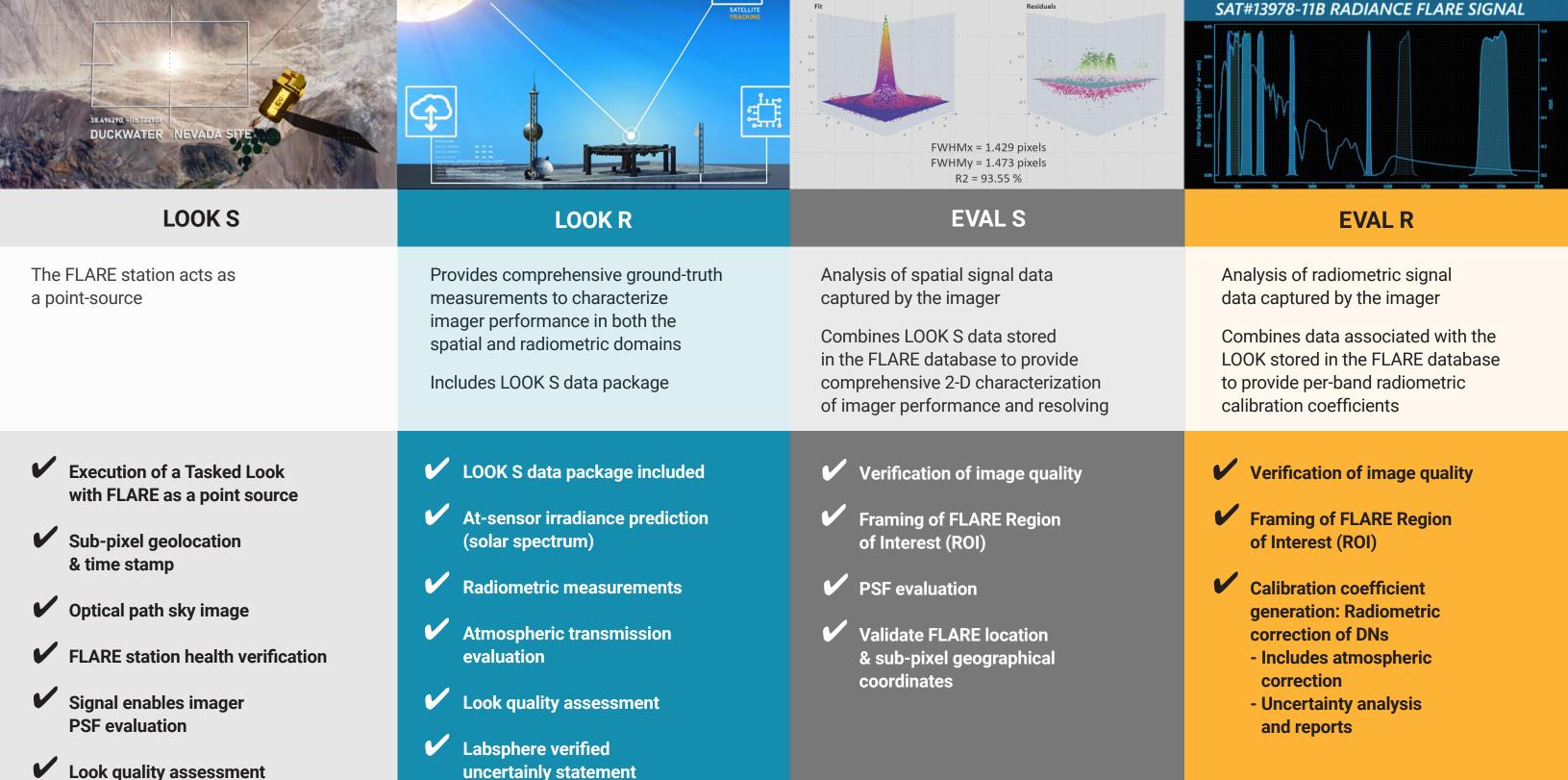
Metrology station measures solar radiance, background, and mirror reflectances



Get the calibration you need when you need it

SIGNAL PRODUCTS

ANALYSIS PRODUCTS



Today's Challenges

Tomorrow's Solutions



Sensor calibration requires costly assets and a highly specialized calibration team



The data you need, at the time you need it - filtering out bad data and providing it at the frequency customers need



Calibration is infrequent and uncertain, with low frequency of opportunities and inconsistent methods



Consistent calibration resulting in improved and increased radiometry and image quality



Current methods require interpretation and analysis, lack a shared standard and are dependent on models that are difficult to maintain over time



Harmonizing data across sensors, industry and technology through software

Control the cost, timing and value of calibration to your system

 $a_0 + \sum_{i=1}^{4} a_i \left(\log_{10} \left(\frac{Rrs_{4i}}{Rrs_{5i}} \right) \right)$

 $\rho(\lambda, \theta_r) \tau_1(\lambda) \tau_1(\lambda) E$

Learn More www.flare-network.com www.labsphere.com

