

**Rapid Build Runways** – A result of statements made on the US Army Corps of Engineers ERDC website that said, “...unimproved airfields cannot support numerous takeoffs and landings without significant delays. Military engineer units currently do not have the tools or capabilities to rapidly upgrade or construct airfields”, TransTech Systems is proposing an R&D program to develop a system utilizing a number of their existing and proposed devices. TransTech visualizes using the highly innovative Soil Quality Indicator (SQI) impedance spectroscopy technology to help achieve proper compaction of the soil sub-base; using their high density paving screed (currently in development) in conjunction with their Notched Wedge Joint Maker™, edge follower and mat temperature sensor for rapid mat laydown that will only require one finish roller pass to achieve the necessary density. With the revolutionary non-contact PQI™, also in development, as the accompanying QC tool, this system would operate in unison with a single paver and roller in a train-like fashion to construct a rapid, one-pass runway surface.