

Capability Statement



Jayanthi Raghu
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ABOUT US

Kryssalis Creators LLC was formed in 2011 and it supports **Federal Highway Administration (DOT)** In its mission "to enable and empower the strengthening of a world-class highway system that promotes safety, mobility, and economic growth, while enhancing the quality of life of all Americans. By providing:

CORE COMPETENCIES

- A tool to analyze research data using Deep learning to provide real-time solutions to transportation engineers and researchers.
- A user interface for data analysts and engineers.
- Algorithms based on Artificial Intelligence.
- A highly customized suite of tools which enables transportation engineers and staff to consume complex, diverse outcomes.
- Providing tools to enable prioritization of projects and services.
- Providing data collection and effective management.
- Working with research from Transportation Research Board (TRB)
- Our tools have been implemented federally as well as in several states.
- Collecting real time data from sources to provide robust, stable, and affordable modern solutions using artificial intelligence.

DIFFERENTIATORS

- Data collection software responsible for monitoring 750,000 bridges in all 50 states in United States.
- Our Budget prioritization tool used to procure approval for funds from the congress for the DOT.
- Visual modelling software is currently being used to manage several DOT assets.

Kryssalis Creators LLC builds custom software solutions that help organizations manage data, share vital information, and make strategic decisions based on real-time data.

Legal Name: Kryssalis Creators LLC

DUNS: 078782506


CAGE: 6X0K7

NAICS: 541511, 541512, 541519, 518210,

Contract Vehicles: Accepts government credit and purchase cards.

Certifications: Woman-owned, HUB vendor

PAST PERFORMANCES



Kryssalis has also been a subcontractor for RD Mingo and Associates regarding contract DTFH61-13-D-00021 since 2013 with FHWA. Other projects are **NCHRP 08-103, TCRP Report 157, and TCRP Report 898 for the Transportation Research Board.**



NBIAS Support for 25th Conditions & Performance Report for analysis of bridge investment needs for developing a biannual report to Congress to show the status of the Nation's Highways, Bridges, and Transit. **HPTS190021PR**



Kryssalis has and is currently providing services and implemented multiple contracts that involve our core competencies for the Federal DOT, Virginia DOT, Connecticut DOT, and the El Paso agency.



Kryssalis has been involved in the development of agency asset management applications to support road inventory, pavement, bridge, and transit systems. We have also built predictive models for asset resource allocation, prediction of deterioration, and benefits associated with achieving a state of good repair. **TRB TCRP Report 157**

Simplified Acquisition Threshold Services and Products

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Under \$250,000

- FHWA's NBIAS legacy system re-engineering of construction and user cost data (2013)
- Targeted budgeting applications for NBIAS (2015)
- Upgrade and enhance the machine learning algorithms for NBIAS (2017)
- Overall and redesign the reporting modules for NBIAS (2019)

Under \$100,000

- Cross asset resource allocation tool for prioritizing and allocating funding
- Transit asset prioritization tool for predicting future conditions of transit assets
- Transit asset management planner to develop financial plans and performance measures
- CHARM program provides public health data for children and families at Utah DOH
- Early childhood collaboration system to integrate various health systems at Utah DOH
- Learning management system for marketing training developed for a Fortune 100 company

Under \$ 50,000

- Learning management system for OSDBU to train small businesses
- Clinical healthcare system to automate patient processing and enable patient engagement
- Survey and volunteer match system for TFTC (Trauma focused) Gardens