TALTOSH

PRODUCT WORKFLOW	TECH. USP	SERVICE	DESCRIPTION	INTEGRATED BASELINE PRODUCT
1. INGEST FS [CSV, UNSTRUCTURED], STREAMING	✗	✓	**TECH:** Airflow, Kafka **SERVICE:** ETL & Data Integration *LONG: Minimal risk, sustainable technologies*	
2. FACT & FEATURE EXTRACTION (LM) MODEL, ALGOS: UNSTRUCTURED TO EVENT	✓	✓	**TECH:** Proprietary models & algorithms **SERVICE:** Custom fact/feature extraction tasks for clients *LONG: Standalone product potential; Extend to other data formats;*	
3. EVENT SPACE TIMESERIES COLUMNAR EVENT & PAYLOAD STORAGE	✗	✗	**TECH:** Apache Druid, MongoDB, HDFS **SERVICE:** N/A *LONG: Minimal risk, sustainable technologies, low added value*	
4. KNOWLEDGE GRAPH DISTANCE, ENTITY & RELATION AGGREGATORS	✓	✓	**TECH:** JanusGraph, Python **SERVICE:** Custom distance calculators, custom relation aggregators *LONG: Standalone product potential*	
5. UX/UI SCOPE, FILTER, VISUALIZE	✗	✗	**TECH:** PrimeNG, Angular, Leaflet, D3 **SERVICE:** N/A *LONG: Low added value; Extend to mobile [...]*	
6. INTERROGATE DIGITAL TWIN RAG CHAT WITH THE [TUNED] TWIN OF SCOPED DATA	✓	✓	**TECH:** Python, Pytorch, Llama2++, Llamaindex, Milvus (vector db) **SERVICE:** Create custom models & custom fine tuning for clients *LONG: Standalone product potential*	
7. CASE RESOLVERS: PLATFORM & MARKET DSP ALGOS & MODEL INFERENCING ON SCOPED DATA	✓	✓	**TECH:** Python, Pytorch, CUDA **SERVICE:** Custom Case resolvers, Model engineering *LONG: Train LLM to use resolvers*	
8. AUTOMATION ALERTS & NOTIFICATIONS	✗	✗	**TECH:** Python, Airflow **SERVICE:** Custom Case resolvers, Model engineering *LONG: N/A*	

INTEGRATED BASELINE PRODUCT

USP for Procurement
— 2 Week signaling analytics coverage for 10M population on consumer pc with 24 GB GPU, 128 GB RAM, 4TB SSD
— Actionable insights within minutes of installation start
— Extensible with simple python notebooks
— Pluggable to on-premise cloud environments
— Dynamic pricing (events, case resolvers)

USP for Consumer
— Event based, goal oriented, intuitive and simple product
— Bulk extract facts from intercepted verbal data
— Interrogate (chat) the Twin of the textual data, retrieve facts, summarization and prompt based alerts
— 40+ Built-in Case Resolvers: complex domain specific set of filters involving algorithms and models
— No special IT/Data/AI related expertise is required

Technology readiness (MVP)
— Backend, API & UX
— Fact & Feature extraction
— Built-in Case Resolvers
— Data Twin Interrogation
— Manual filters
— Integration

Requirements
— Feature & Case resolver Prioritizing
— Sample data for fact extraction
— Large scale data for signaling analytics
— Sample Cases for evaluation
— Market & sales