Sensors

Data Ingestion
- RTSP/Raw → Decode → Img Proc → Batching → DNNs
- CPU
- nvdecode
- GPU
- VIC
- Linux OS
- Edge

Inference
- Batching → DNNs
- Spark
- CPU
- GPU
- Tensorflow
- Linux OS
- Edge

Tracking
- Viz / Stg ← Tracker
- VIC
- Cassandra
- GPU
- GPU
- CPU
- Apache Kafka
- Linux OS
- Edge

User Service
- Apache Kafka
- Linux OS
- VPC Titron

Configuration Options
- **Linux OS**: Scheduler Policy, Cache Pressure, Swappiness, Scheduler Runtime
- **CPU**: CPU Frequency, Number of CPU Status
- **GPU**: GPU Status, GPU Frequency,
- **Edge Hardware**: Memory Controller Frequency, Swap Memory
- **nvdecode**: Bit rate, Compression, Sync
- **Spark**: Batch Size, Parallelism
- **Cassandra**: Compression Ratio, Chunk Length, Page Cache, OFF Heap Memory