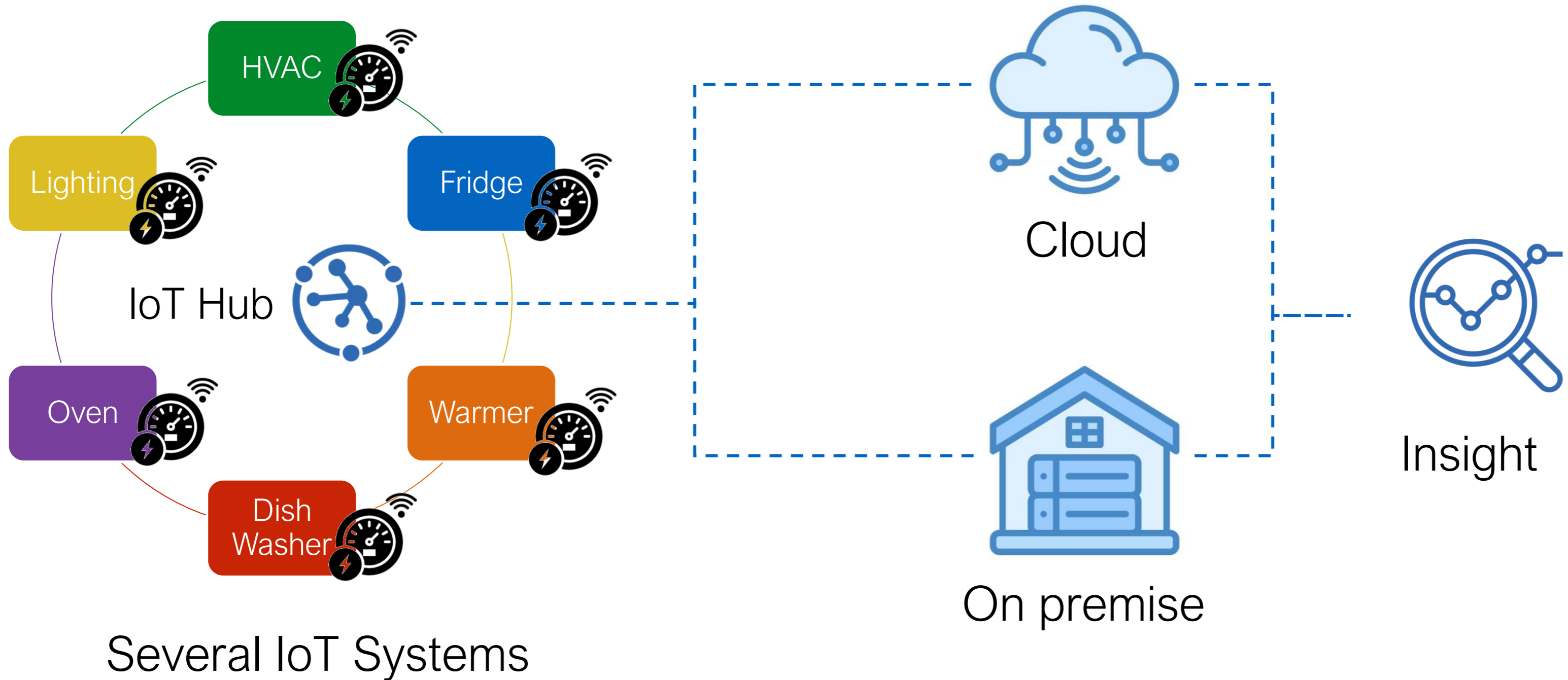# Builtrix
Connected-Building Solution

DeepEnD

Deep Learning based Non-intrusive Load Monitoring for Energy Disaggregation in Buildings

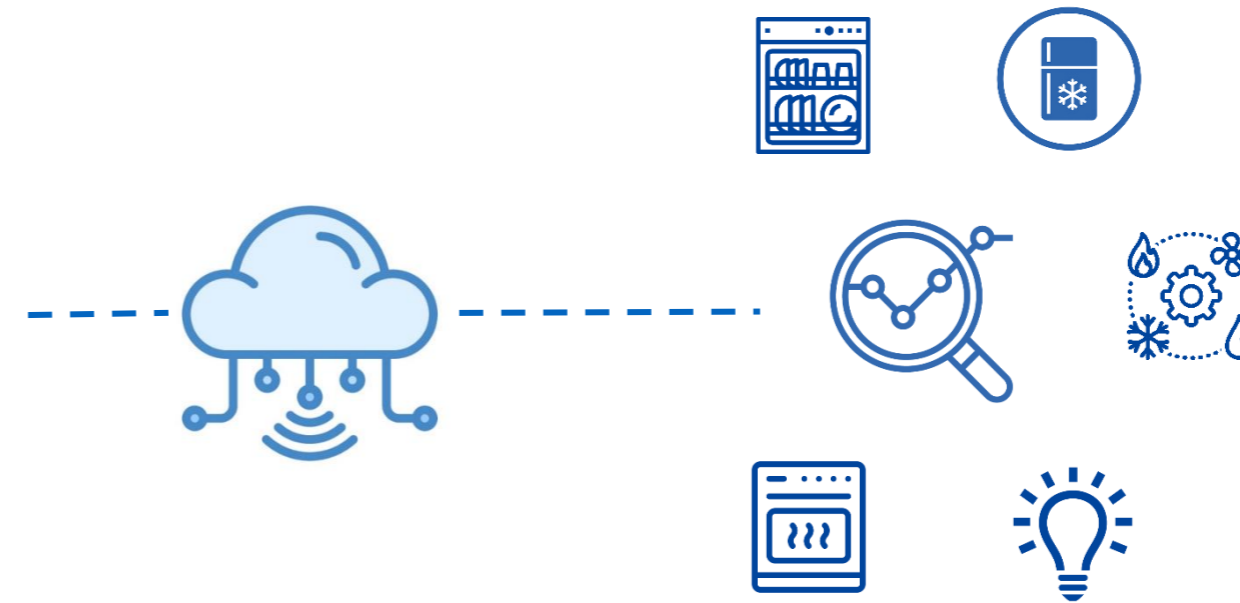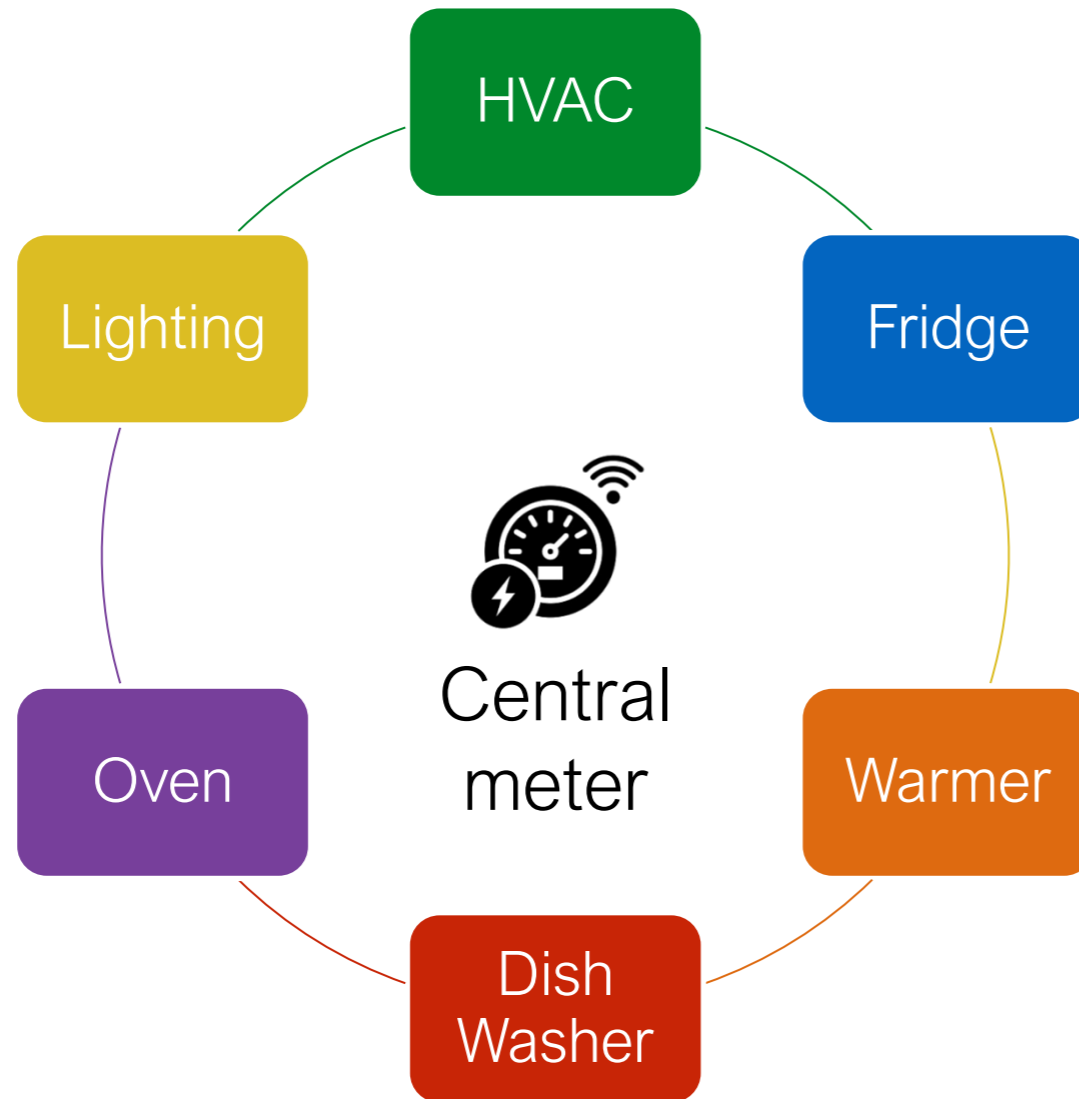Mojtaba Kamarlouei
CTO & Co-founder

Current Solution

Smart Energy Infrastructure

Several IoT Systems

HVAC

Fridge

Lighting

IoT Hub

Oven

Warmer

Dish Washer

Cloud

On premise

Insight

Virtual Disaggregation

Central Smart meter & AI

Builtrix
Connected-Building Solution

HVAC

Fridge

Lighting

Central meter

Warmer

Oven

Dish Washer

Insight in Appliance Level
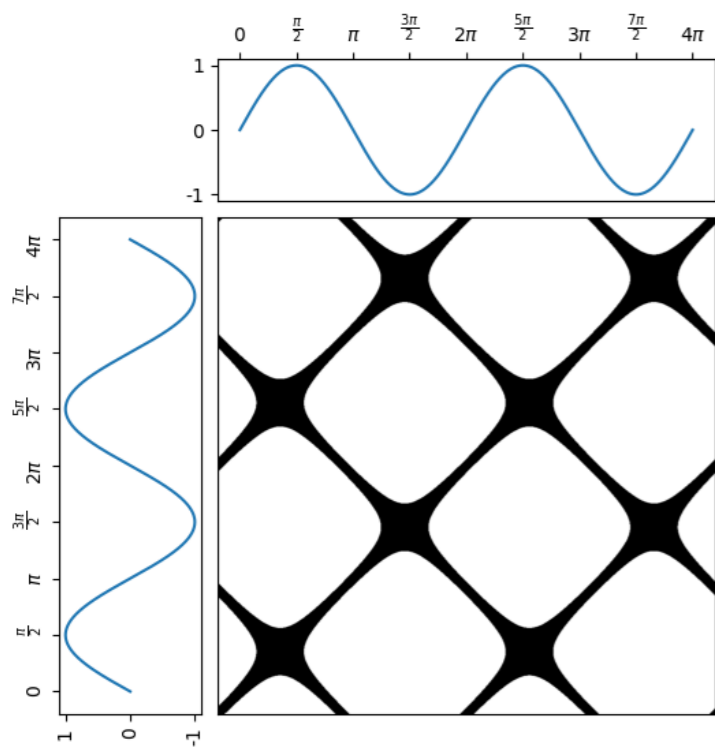
Added Value

Easy to Integrate

Less CAPEX
(No Hardware)
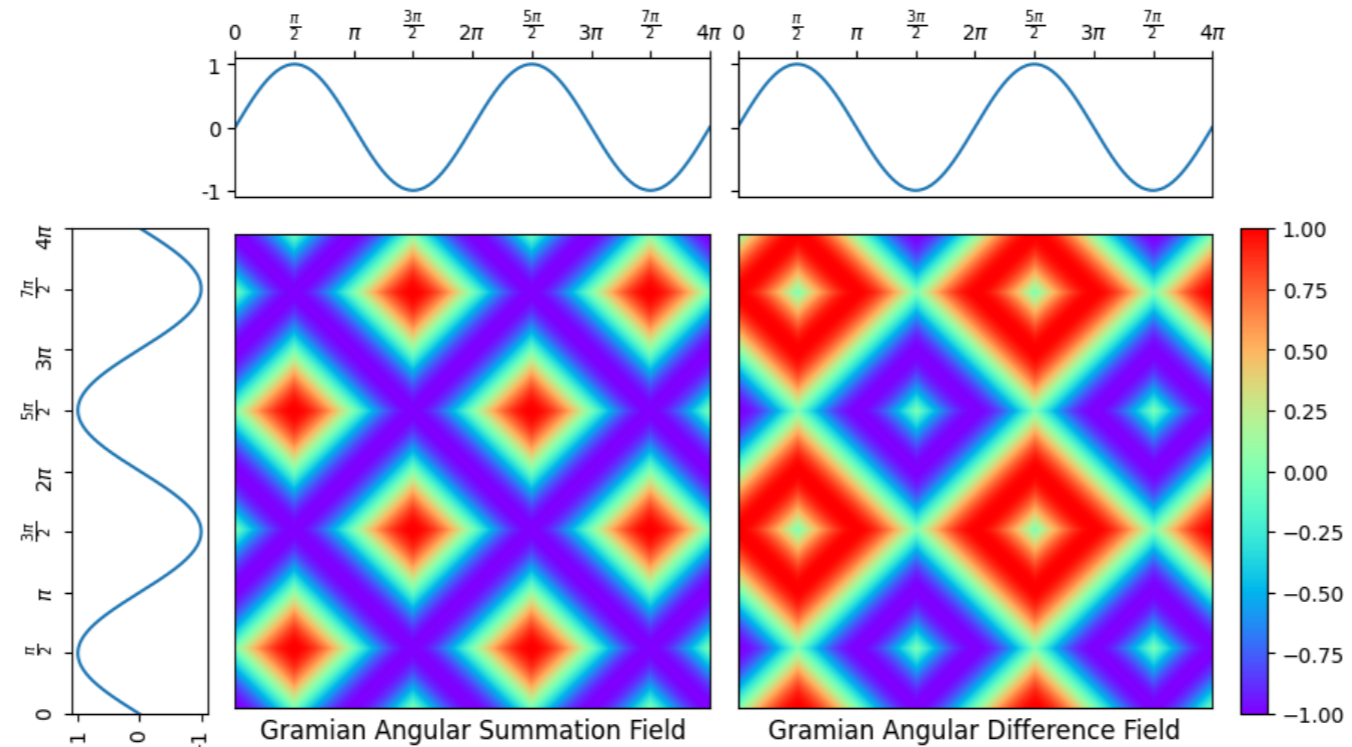

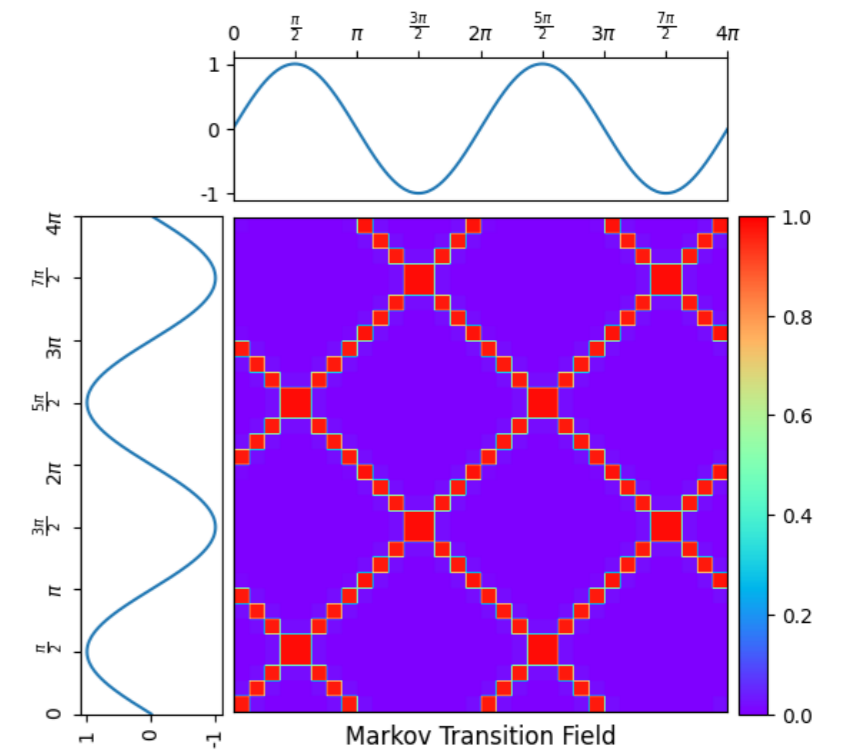Energy Saving

Timeseries Imaging Approaches

Recurrence Plot   Gramian Angular Field   Markov Transition Field

Scalability and Flexibility of the Solution

Data models

Interoperability

Containerization

Cluster computing

DATA GOVERNANCE AND LEGAL COMPLIANCE

- Builtrix Data Protection Impact Assessment (DPIA)

- Infrastructure Access Management (IAM)
  - Users and organizations management
  - Authentication both for end users' identity & application/internal components
  - Authorization Server for access decisions and token enforcement

- SSL encryption via https protocol and transferring data via FTPS/SFTP

Builtrix
Connected-Building Solution

Mojtaba Kamarlouei
CTO & Co-Founder

mkamarlouei@builtrix.tech

www.builtrix.tech

HQ: Lisbon, Portugal