PROJECT RESILIENCE

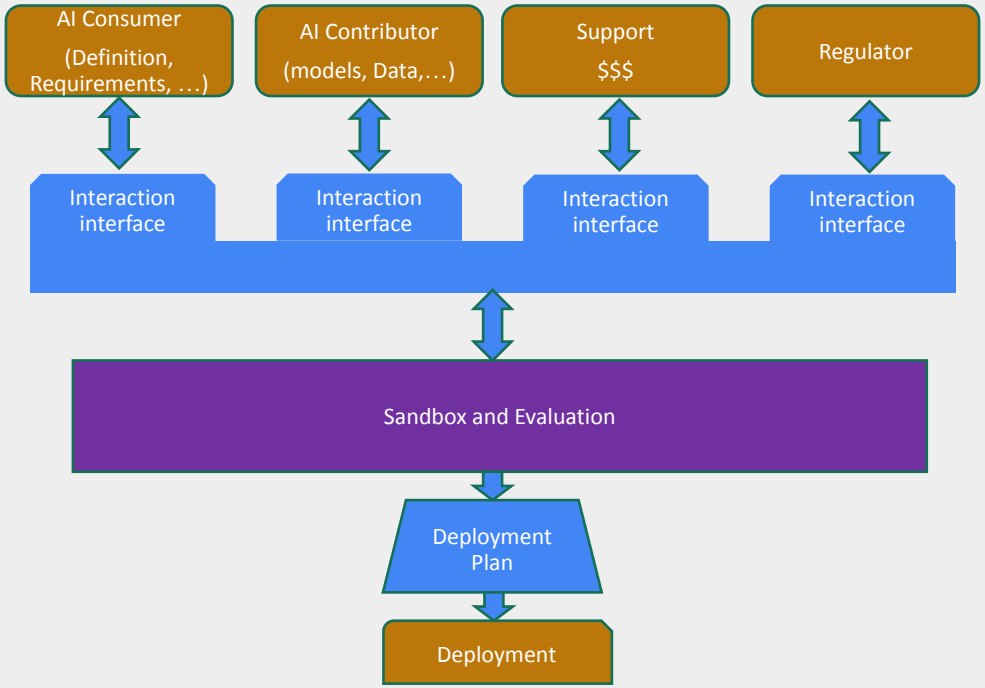
Introduction to Working Group 1 - MVP

PROJECT RESILIENCE

A platform allowing collaboration on building predictive and prescriptive models that can be used by any community

Identifying data and guidelines to support sustainable models.

Focus on multi stakeholders and variety of users globally



High Level View

Working Group 1

PLATFORM MVP

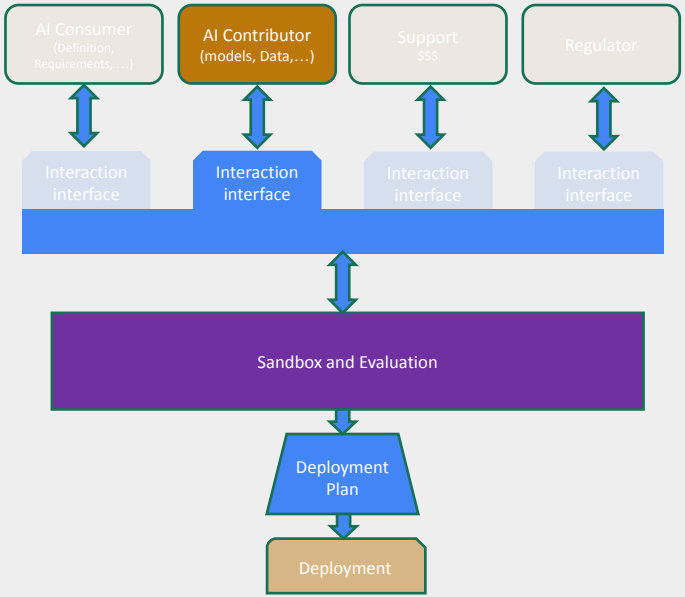
Chairs: Babak Hodjat, Risto Miikkulainen

The Resilience Platform - MVP

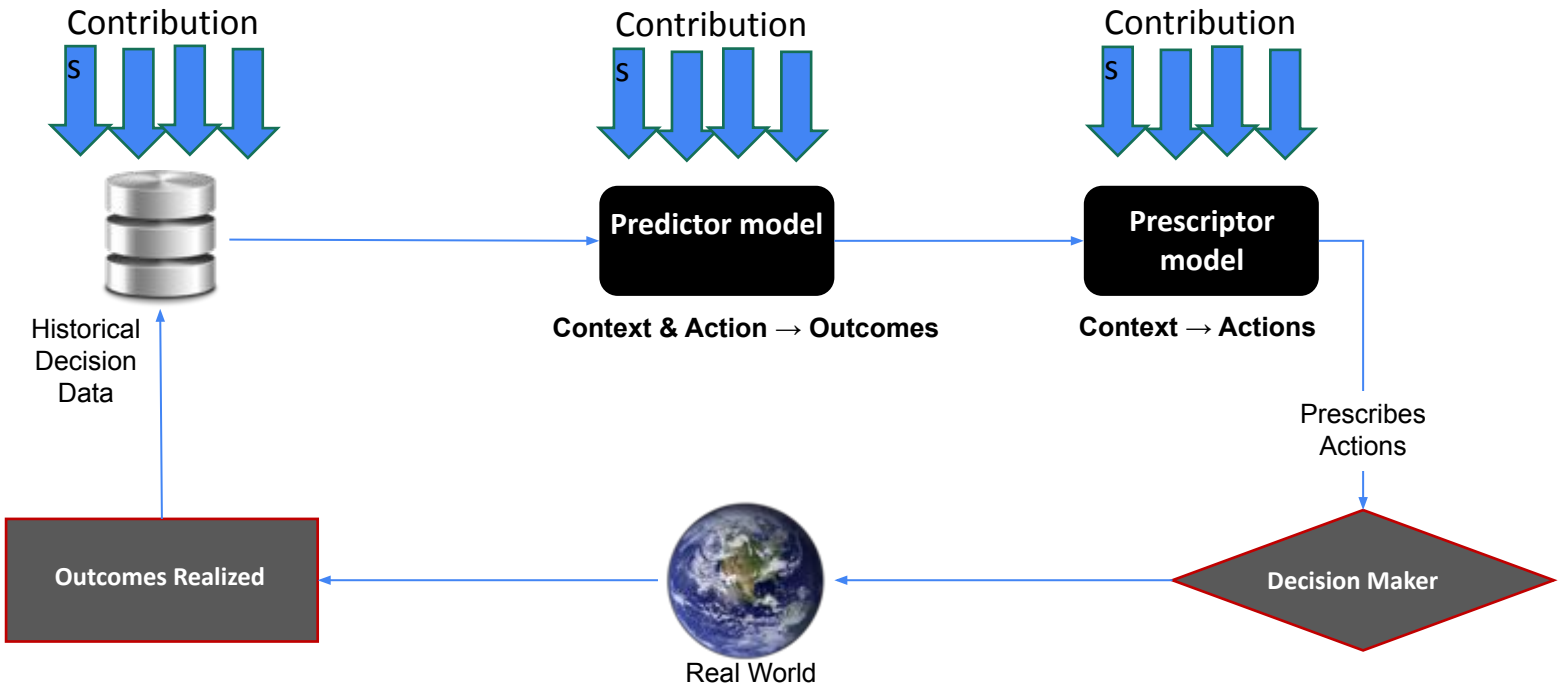
A place to go to define the scope, collaborate, and cohere multiple local AI efforts tackling a global problem, harnessing the global energy of disparate local AI efforts.

An important aspect of the system will be the design and maintenance of a set of guidelines, standards, and API to facilitate contributions into the greater whole.

The Resilience Platform - MVP



MVP AI Contribution Points



MVP Assumptions

DATA ALREADY EXISTS

DATA IS PUBLIC AND DOES NOT HAVE SECURITY/PRIVACY

SUBMITTED MODELS ARE CALLED AND RUN ON SUBMITTER LOCAL COMPUTE

FULL PROCESS OF MODEL TRAINING IS DISCLOSED BY CONTRIBUTORS

EXPECTED MVP Goals

BUILD

Accommodation for model submissions:

- **Predictors**: context + actions are input, predicts outcomes
- **Prescriptors**: context is input, prescribes actions optimizing desired balance of outcomes
- Guidance on model API
- Version control on models

Automated module to assess and compare models by making calls to models hosted by 3rd parties or submitters

- Some basic ensembling of submitted models
- Submissions could consist of model input/outputs rather than model itself

GUIDANCE

- as to the requirements of a deployment UX
- data needs requirements and format

STORAGE AND COMPUTE

- For assessing submitted models: could be hosted by 3rd -parties with guidance from project
- Guideline on contributing hosting services for collaborative AI system runtime

EXPECTED MVP Goals

Non-Requirements:

- Data Clearing House
- Storage and Compute for Training and updates of Models
- Deployment UX

Next Steps

- Project Management Kanban and task list
- Some tasks:
  - Architecture Outline
  - High level module definitions and requirements
  - API and Data requirements Guidance Doc outline
  - Dev Requirements:
    - IT
    - People

Phase 1 (November 2021 ~ February 2022)

Detailed Requirements, Design, and Provisioning	• Complete detailed requirements in data and model tracks • UX Design • Ops Provisioning • Review and iterate with other project working groups
MVP Implementation	• UX • Automated Assessor • Integration and Release

HOW TO PARTICIPATE

HOW TO CONTRIBUTE

Open source models for both prediction and prescription around COVID19 and future pandemics

Expertise and time to collate, enhance and implement models

Public and private datasets that might enhance and / or focus these efforts

Time and skills associated with building tools and frameworks to make AI available to the non-data science community.

Who should join

- Tech program management
- AI/ML
- Data Science
- Dev and System Ops
- UI/UX
- Legal / Security / Privacy

How to connect

- **Slack**: bit.ly/project-resilience
- email: pr@ai-commons.org