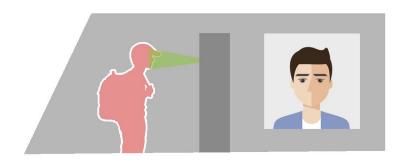
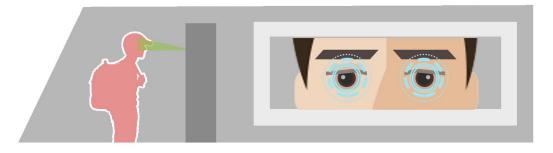
# **Image Analysis API**

**The Maryland Test Facility** 





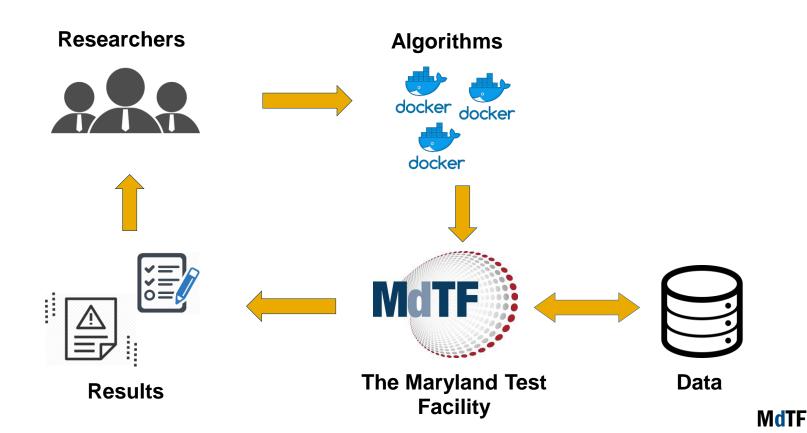


# **MdTF Image Analysis API**

#### Goals:

- Provides a uniform interface for MdTF // DHS S&T research partners to submit image analysis algorithms to the MdTF
- Allows for rapid prototyping of research algorithms via the generic API
- Keeps MdTF datasets sequestered

#### **Overview**



# **Implementation Details**

- Algorithms must:
  - Be provided in a docker image
  - Implement and expose the specified API
  - Be submitted via the MdTF upload page
  - Identify a valid dataset for evaluation
  - Provide consistently formatted output from the /v1/analyze-image endpoint (i.e. always return the same JSON object format)
  - Handle parallel requests



#### **Results Format**

- Results will:
  - Be returned in a CSV format via automated email
  - —One row per image submitted to the image analysis algorithm containing:
    - An image identifier
    - An error string (empty if no error is reported)
    - An additional column for each corresponding field reported by the /v1/analyze-image endpoint



### **Example**

• Output of a /v1/analyze-image call for three separate images:

```
{
    "AnalysisScore": "5.0002",
    "NormalizedScore": "0.50002",
    "ErrorLog": ""
}
```

```
{
    "AnalysisScore": "0",
    "NormalizedScore": "0",
    "ErrorLog": "No Face Found"
}
```

```
"503: Service Unavailable"
```

Corresponding returned CSV, with headers:



# **Questions?**

• For a timely response, please use the community email address info@mdtf.org