**MOTIVATION**

Data that impacts Massachusetts’ economic health

- The Massachusetts Technology, Talent, and Economic Reporting System (MATTERS) incorporates data from across many diverse online sources into one platform for extraction, exploration, and visualization.
- Metric Builder tool provides users with the ability to use pre-existing metrics in the system as a part of their own economic indicators.
- Access to rich collection of data and tools for exploration helps business leaders and policy makers evaluate the competitive position of Massachusetts among top technology states in the nation.

**DATA EXPLORATION**

**EVALUATION**

Metric Builder and API Documentation User Studies

- 14 WPI students took part in a user study to test both the Metric Builder and API Documentation.
- Students rated the ease of use of both features through a survey and provided additional feedback.

Results:

1. Overall, found to be very intuitive
2. API Documentation link was put in an easier to locate place at the footer
3. Edit feature of custom metric made easier to find from Explorer page

**PUBLIC FACING API**

Access to high fidelity data resource

- Application Program Interface (API) - code that allows two software programs to communicate with each other.
- Allows other software systems to make use of MATTERS data and analytics.
- API controller returns states and metrics information, as well as data for requested metrics, states and years.
- End users are programmers – they can easily use MATTERS data in their software.

**CUSTOMIZED METRIC BUILDER**

- Create custom indices using pre-existing metrics.
- Assign weights to components and normalize.
- Edit or delete your metric.
- Save your metric.
- Visualize your custom metric seamlessly.

**API DOCUMENTATION**

**IMPACT & ACKNOWLEDGEMENTS**

**IMPACT:**

- MATTERS usability extended key features to be deployed to public domain as MATTERS 2.0.

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