FY16 – Mass Challenge

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| **Features** | **Activities** | **Depends On** | **Estimate of Effort** |
| **Secure Server** - Secure syntheticmass.mitre.org server | * Resolve identified issues in InfoSec scan |  | 2 staff weeks |
| **Server on DMZ** - Get syntheticmass.mitre.org server moved into DMZ to support external access |  | Secure Server |  |
| **Census Stats** - Support 1-4 additional Census statistics in SyntheticMass UI | * Update API to offer those statistics at county and/or county subdivision levels * Update UI to offer the new statistic as an option and get the data from the API |  | * API - 1 Staff week/Stat * UI – 3 Staff days?/Stat |
| **Synthetic Stats** – 1-4 Additional Synthetic Statistics in SyntheticMass UI (e.g., number of living patients with diabetes) | * Update API to offer the new statistic which may require additional back-end work to maintain the statistic * Update UI to offer the new statistic as an option and get the data from the API |  | * API - 1 Staff week/Stat * UI – 3 Staff days?/Stat |
| **Download Synthetic Data** – Download Synthetic Patients by Criteria in Specified Format | * Support CCDA and FHIR formats with SHR compliance (?) * Can leverage Search Synthetic Patients below * Need to package up matching patients in CCDA or FHIR format and support downloading |  | * API – 1 staff week * UI – 1 staff week |
| **FHIR Client** – Integration Test of a FHIR Client using Synthetic Data | * FHIR Server with synthetic patient data * Resolve performance problems with HAPI FHIR server | Synthea generation | * Up to 2 staff weeks to resolve performance issue * 1 staff month duration to populate |
| **Integration Test Direct Sending** – Integration Test Direct Sending using Synthetic Data | * Receive data via Direct and store in FHIR server |  | * Back-end – 1 staff week |
| **Integration Test Direct Receiving** | * API required to initiate Direct sending and for address lookup * Update UI to support sending of synthetic data via Direct including recipient address lookup |  | * API – 1 staff week * UI – 1 staff week |
| **Search Synthetic Patients** – Define criteria and see list of matching synthetic patients | * API for searching already exists in FHIR * FHIR Tester client has a UI for doing this already, but may want to improve upon that |  | * UI – 2 staff weeks (if needed) |
| **View Synthetic Patient** – View a synthetic patient’s record | * API for retrieving a patient already exists in FHIR * Create UI to view a patient record |  | UI – 3 staff weeks |

FY17 – Synthetic Mass v1

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| **Features** | **Activities** | **Depends On** | **Estimate of Effort** |
| Blue Button |  |  |  |
| Support Mass Challenge (Until February 2017) |  |  |  |
| **Initial Public Health Official Use Cases** – using synthetic data as demo of concept |  |  |  |
| **Implement feedback from Mass Challenge** |  |  |  |

FY18 – MA HIE

FY19 – National HIE Test Bed