To diagram the various tools for each portion of the MES modernization:

**Purpose:**
- To diagram the various tools for each portion of the MES modernization.

**Definite tools in ITF:**
- IBM Collaborative Lifecycle Management on Cloud
- IBM Rational Team Concert™
- IBM Rational DOORS® Next Generation
- IBM Rational Quality Manager
- IBM Rational Test Workbench
- IBM Rational Functional Tester
- IBM Rational Performance Tester
- IBM Infosphere Optim™ Test Data Management

**Possible tools in ITF depending on contract award:**
- JIRA (JE Help)
  - A proprietary issue tracking product, developed by Atlassian.
  - Provides bug tracking, issue tracking, and project management functionalities.
  - A free version of JIRA, called JIRA Basic, is available for download at https://www.atlassian.com/software/jira/download.
- SoapUI NG Pro
  - A powerful API testing tool that supports API testing, REST, SOAP, and other protocols.
  - Integration with existing systems like JIRA and Jenkins.
  - Helps in testing the API endpoints and ensuring they are working as expected.

**Rational Test Workbench**
- Provides software testing tools supporting DevOps approaches.
- API testing, functional UI testing, performance testing, and stress testing.
- Helps automate and run tests earlier and more frequently to discover errors sooner.

**IBM Rational Functional Tester**
- An automated functional and regression testing tool.
- Provides automated testing capabilities for functional, regression, GUI, and data-driven testing.
- Supports a range of applications such as web-based, .Net, Java, SAP, terminal emulator-based applications, and more.

**IBM Rational Performance Tester**
- A performance testing tool that identifies the presence and cause of system performance bottlenecks.
- Simplifies test creation, load generation, and data collection processes to help teams ensure the ability of their applications to accommodate required user loads.

**IBM Infosphere Optim™ Test Data Management**
- Optimizes and automates the test data management process.
- Provides bug tracking, issue tracking, and project management functionalities.
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**LoadUI Pro**
- A load testing tool that helps you tune your applications.
- Helps with load testing, stress testing, and functional testing.

**UI Functional Automation – Selenium**
- Selenium is a portable software testing framework for web apps.
- Provides a record/playback tool for authoring tests, a test domain-specific language (Selendroid) to write tests in a number of popular programming languages, and more.
- http://www.selenide.org/

**LoadTesting – Xray**
- Xray is an additional extension for testing load-based testing.
- Helps you measure and optimize the performance of your applications.

**LoadComplete**
- Desktop tool for load, stress, and scalability testing of websites and web applications using modern web technologies like AJAX, ASP.NET, Java, Flash, Flex, and Silverlight.
- Helps you generate load from virtual machines, on-premise computers, or even the cloud.

**Dashboards**
- A business intelligence solution to fully utilize information and make highly intelligent business decisions.
- Provides dashboards that display data via charts and maps and gives users drill-downs to get more information.
- https://www.naveenonline.com/dashboards/