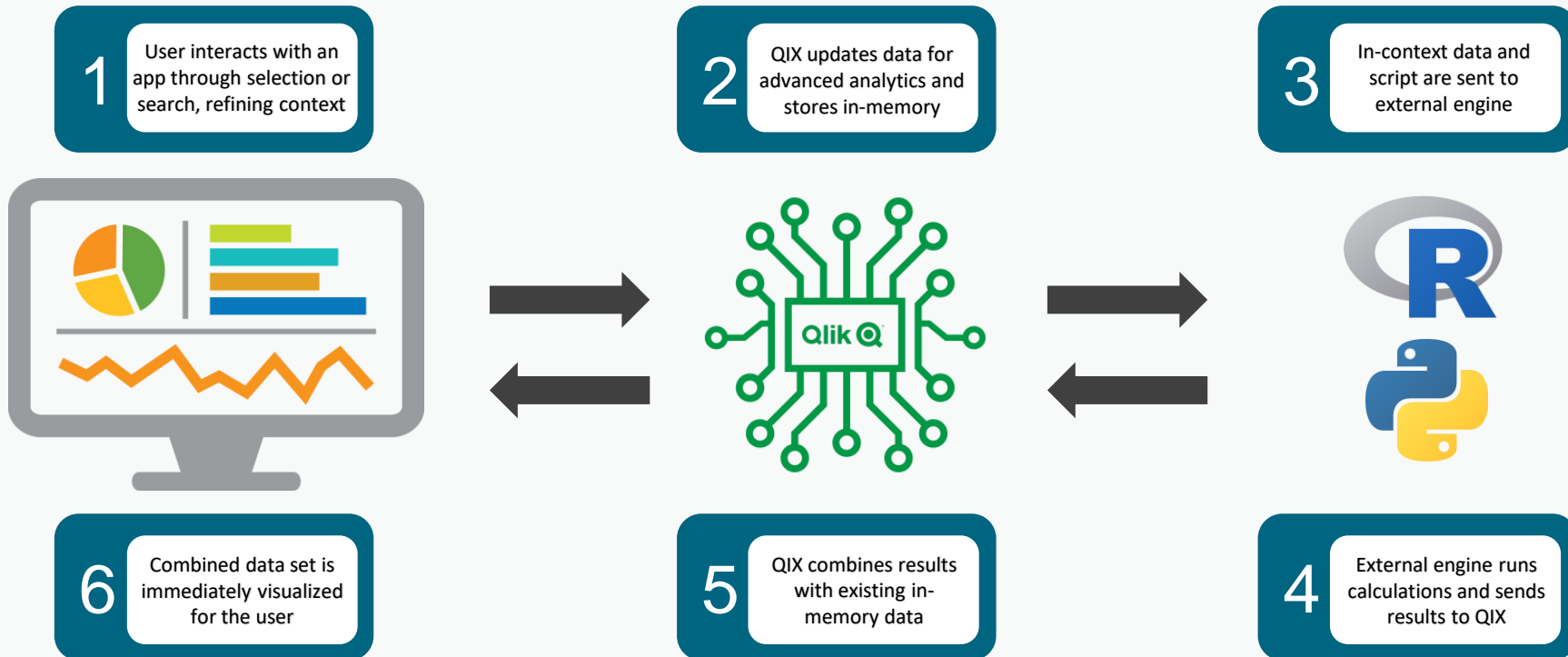


Benefits:

- Connects third party analysis engines directly to Qlik Sense
- Reduces efforts importing and exporting data manually - streamlines the analytics process
- Enhance existing analytics platform investments
- Increase analytical access to a wider community

Understanding the QIX Engine





R is an open-source software package licensed under the GNU General Public License (GPL)

For more information on R and to obtain the latest version, visit The Comprehensive R Archive Networks web page at:

<https://cran.r-project.org/>

SSEtoRserve an open-source Server-Side Extension released under the MIT License

For more information see the GitHub page:

<https://github.com/qlik-oss/sse-r-plugin>

The connector, SSEtoRserve, and Rserve must be running to communicate with R

Access the Qlik Community site to investigate 3rd party manager programs:

<https://community.qlik.com/blogs/qlikviewdesignblog/2017/07/07/automatically-start-the-r-plugin>

Customize functions and security to suit your particular needs

Access the support documentation on GitHub to learn more about these advanced configuration options:

<https://github.com/qlik-oss/sse-r-plugin/blob/master/GetStarted.md#defining-and-using-your-own-functions>



Python is an open-source programming language released under the Python Software Foundation License (PSFL)

For more information on Python and to obtain the latest version, visit Python Foundation's web page at:

<https://www.python.org/downloads/>

Python Server-Side Extension and scripts

For more information see the GitHub page:

<https://github.com/qlik-oss/server-side-extension>

<https://github.com/qlik-oss/server-side-extension/tree/master/examples/python>

Full script access is available within Qlik Sense if desired

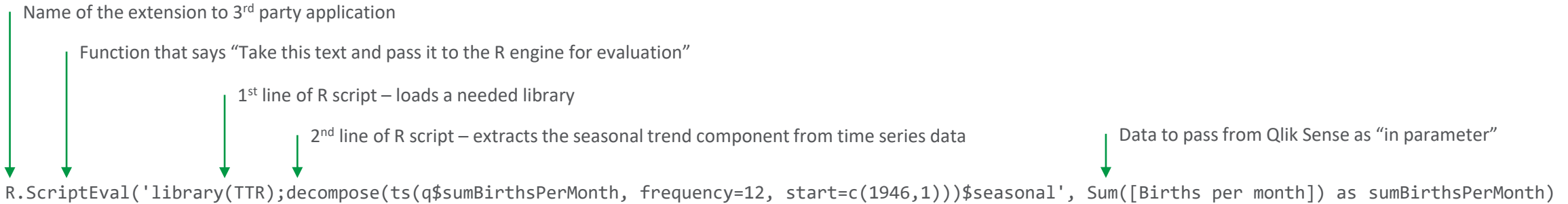
Access the support documentation for the full script support:

<https://github.com/qlik-oss/server-side-extension/tree/master/examples/python/fullscriptsupport>

Customize virtual environments to suit your particular needs

Access the support documentation to learn more about these advanced configuration options:

<https://s3.amazonaws.com/dpi-sse/DPI+-+Qlik+Sense+AAI+and+Python+Environment+Setup.pdf>



Eight Base Functions

Scalar Functions

Importance of Data Types

Aggregation Functions

| | | |
|-------------------|---|-------------------|
| ScriptEval() | ----- Numerical Input and Output ----- | ScriptAggr() |
| ScriptEvalStr() | ----- String Input and Output ----- | ScriptAggrStr() |
| ScriptEvalEx() | ----- Dual Input and Numerical Output ----- | ScriptAggrEx() |
| ScriptEvalExStr() | ----- Dual Input and String Output ----- | ScriptAggrExStr() |

For more examples, please see the GitHub page for the SSEtoRserve connector

<https://github.com/qlik-oss/sse-r-plugin/tree/master/csharp/SSEtoRserve>

Understanding **Serialization**

