

CLAIMS

1. A data conversion and distribution system comprising:

a data subscription unit having at least one data interface communicatively coupled to a plurality of data source devices and configured to obtain data having a plurality of data formats from the plurality of data source devices and to transmit the data having the plurality of data formats via secure communication over at least one network; and

a virtual machine comprising one or more servers, a non-transitory memory, and one or more processors comprising machine readable instructions, the virtual machine communicatively coupled to the data subscription unit, the virtual machine further comprising:

a data receiver module configured to receive the data having the plurality of data formats from the data subscription unit via the secure communication over the at least one network;

a data unification module configured to reformat and aggregate the data from the data subscription unit to generate unified data responsive to receiving, at the receiver module, the data having the plurality of data formats, and further configured to at least one of decompress, cleanse, and unpack the data having the plurality of data formats;

a data conversion module configured to run the unified data through one or more statistical algorithms to generate at least one of data sensitivities and projected data based on the unified data; and

a data transmission module configured to transmit the at least one of the data sensitivities and the projected data to a data distribution device via one or more secure communications over the at least one network.

2. The system of claim 1, wherein the data distribution device further comprises:

a non-transitory memory configured to store the at least one of the data sensitivities and the projected data; and

at least one data distribution interface, each of the at least one data distribution interface configured to provide secure communications with at least one of one or more remote user devices.

3. The system of claim 2, wherein each of the one or more remote user devices further comprises:

- a non-transitory memory,
- one or more processors comprising machine readable instructions,
- a data distribution receiver interface communicatively coupled to the data distribution device;

- a user information interface;

- a market data source interface;

- a user display interface,

wherein each of the one or more remote user devices is further configured to:

- receive, via the data distribution receiver interface, at least one of the data sensitivities and the projected data from the data distribution device;

- receive, via the user information interface, user input data;

- receive, via the market data source interface, current market data;

- generate, via the one or more processors, supplementary projected data based on the received at least one of the data sensitivities and the projected data, the user input data and the current market data; and

- display, via the user display interface, at least a portion of at least one of the projected data and the supplementary projected data.

4. The system of claim 1, wherein the data subscription unit further comprises:

- a data preference receiver configured to receive subscription preferences; and

- a non-transitory memory configured to store the subscription preferences,

wherein the data subscription unit is further configured to communicatively couple the at least one data interface to at least one of the plurality of data source devices in accordance with the subscription preferences.

5. The system of claim 2, wherein each of the one or more remote user devices is configured to:

transmit, to the data distribution device, a request to receive a portion of the at least one of the data sensitivities and the projected data from the data distribution device; and

receive, from the data distribution device in a secure communication, the portion of the at least one of the data sensitivities and the projected data responsive to the request.

6. The system of claim 3, wherein each remote user device is further configured to:

receive user graphical user interface (GUI) preference data from a user of the device;

extract information comprising at least a portion of the supplementary projected data, the at least one of the data sensitivities and the projected data, and the current market data from at least one of the non-transitory memory of the remote user device and the non-transitory memory of the data distribution device based on the received user GUI preference data;

display the extracted information on a graphical user interface of the user display interface in accordance with the user GUI preference data.

7. The system of claim 1, wherein the projected data further comprises one or more of a projected volume, a projected dollar volume, an Amihud ratio, a liquidity ratio and a liquidity score per category.

8. The system of claim 3, wherein the supplementary projected data further comprises one or more of a projected market price impact and a projected days to liquidate.

9. A method for data conversion and distribution, the method comprising:

obtaining, by a data subscription unit via a secure communication over at least one network, data having a plurality of data formats from the data source devices;

transmitting, via the data subscription unit, the data having the plurality of data formats to a virtual machine comprising a data receiver module, a data unification module, a data conversion module, and a data transmission module;

receiving, by the data receiver module via secure communication over the at least one network, the data having the plurality of data formats from the data subscription unit;

reformatting and aggregating, via the data unification module, the data from the data subscription unit to generate unified data responsive to receiving, at the receiver module, the data having the plurality of data formats, said reformatting and aggregating comprising at least one of decompressing, cleansing, and unpacking the data having the plurality of data formats;

generating, via the data conversion module, at least one of data sensitivities and projected data, wherein said generating further comprises running the unified data through one or more statistical algorithms; and

transmitting, via the data transmission module, the at least one of the data sensitivities and the projected data to a data distribution device via one or more secure communications over the at least one network.

10. The method of claim 9, further comprising:

storing, by the data distribution device, at least one of the data sensitivities and the projected data; and

transmitting, by the data distribution device, at least one of the data sensitivities and the projected data to one or more remote user devices.

11. The method of claim 10, further comprising:

receiving, via a data distribution receiver interface of the one or more remote user devices, at least one of the data sensitivities and the projected data from the data distribution device, the one or more remote user devices comprising a non-transitory memory, one or more processors comprising machine readable instructions, an user information interface, a market data source interface, and a user display interface;

receiving, via the user information interface, user input data;

receiving, via the market data source interface, current market data;

generating, via the one or more processors, supplementary projected data based on the received at least one of the data sensitivities and the projected data, the user input data and the current market data; and

displaying, via the user display interface, at least a portion of the at least one of the projected data and the supplementary projected data.

12. The method of claim 9, further comprising:

- receiving, via the data subscription unit, subscription preferences;
- storing, at the data subscription unit, the received subscription preferences in a non-transitory memory; and
- communicatively coupling the at least one data interface of the data subscription unit to at least one of the plurality of data source devices in accordance with the subscription preferences.

13. The method of claim 10, further comprising:

- transmitting, from a remote user device from among the one or more remote user devices to the data distribution device, a request to receive a portion of the at least one of the data sensitivities and the projected data from the data distribution device; and
- receiving, at the remote user device from the data distribution device in a secure communication, the portion of the data sensitivities and the projected data responsive to the request.

14. The method of claim 11, further comprising:

- receiving, at each remote user device, user graphical user interface (GUI) preference data from a user of the device;
- extracting, at the respective remote user device, information comprising at least a portion of the supplementary projected data, the at least one of the data sensitivities and the projected data, and the current market data from at least one the respective remote user device and the data distribution device based on the received user GUI preference data;
- displaying, at the remote user device, the extracted information on a graphical user interface of the user display interface in accordance with the user GUI preference data.

15. The system of claim 9, wherein the projected data further comprises one or more of a projected volume, a projected dollar volume, an Amihud ratio, a liquidity ratio and a liquidity score per category.

16. The system of claim 11, wherein the supplementary projected data further comprises one or more of a projected market price impact and a projected days to liquidate.

17. A non-transitory computer-readable storage medium programmed to include instructions that, when executed by one or more processing devices, cause the one or more processing devices to perform the functions comprising:

- obtaining, by a data subscription unit via a secure communication over at least one network, data having a plurality of data formats from the data source devices;

- transmitting, via the data subscription unit, the data having the plurality of data formats to a virtual machine comprising a data receiver module, a data unification module, a data conversion module, and a data transmission module;

- receiving, by the data receiver module via secure communication over the at least one network, the data having the plurality of data formats from the data subscription unit;

- reformatting and aggregating, via the data unification module, the data from the data subscription unit to generate unified data responsive to receiving, at the receiver module, the data having the plurality of data formats;

- generating, via the data conversion module, at least one of data sensitivities and projected data, wherein said generating further comprises running the unified data through one or more statistical algorithms; and

- transmitting, via the data transmission module, the at least one of the data sensitivities and the projected data to a data distribution device via one or more secure communications over the at least one network.

18. The non-transitory computer-readable storage medium of claim 17, further comprising:

- storing, by the data distribution device, at least one of the data sensitivities and the projected data;

transmitting, by the data distribution device, at least one of the data sensitivities and the projected data to one or more remote user devices;

receiving, via a data distribution receiver interface of the one or more remote user devices, at least one of the data sensitivities and the projected data from the data distribution device, the one or more remote user devices comprising a non-transitory memory, one or more processors comprising machine readable instructions, a user information interface, a market data source interface, and a user display interface;

receiving, via the user information interface, user input data;

receiving, via the market data source interface, current market data;

generating, via the one or more processors, supplementary projected data based on the received at least one of the data sensitivities and the projected data, the user input data and the current market data; and

displaying, via the user display interface, at least a portion of at least one of the projected data and the supplementary projected data.