WHAT IS CLAIMED IS:

1. A resource-based distributed public ledger system, comprising:

a non-transitory memory; and

one or more hardware processors coupled to the non-transitory memory and configured to execute instructions from the non-transitory memory to cause the system to perform operations comprising:

receiving first transaction information for a first transaction that is configured to provide for a transfer of a digital asset to a payee via a primary distributed public ledger that is maintained by a plurality of computing devices;

identifying resource information that was provided by each computing device included in the plurality of computing devices prior to the receiving of the first transaction information, wherein the resource information is part of a respective second transaction that was broadcast via a network by each computing device included in the plurality of computing devices, wherein each respective second transaction is directed to a secondary distributed public ledger address in the primary distributed public ledger;

selecting, using the resource information that was provided by each computing device included in the plurality of computing devices, a subset of the plurality of computing devices for processing the first transaction; and

broadcasting, via the network to each computing device included in the subset of the plurality of computing devices, the first transaction information for the first transaction in order to cause a first computing device in the subset of the plurality of computing devices to process the first transaction as part of a first block that is added to the primary distributed public ledger.

2. The system of claim 1, wherein the operations further comprise:

receiving, through the network from each computing device included in the plurality of computing devices, the resource information; and

storing the resource information in a database, wherein the database is accessible to identify the resource information.

3. The system of claim 1, wherein the operations further comprise:

receiving, through the network from each computing device included in the plurality of computing devices, the resource information; and

processing each second transaction as part of at least one second block that is provided in the primary distributed public ledger in order to store the resource information received from each computing device included in the plurality of computing devices in a secondary distributed public ledger, wherein the secondary distributed public ledger is accessible to identify the resource information.

4. The system of claim 1, wherein the selecting is based on each of the computing devices in the subset of the plurality of computing devices being associated with resource information that satisfies a minimum processing efficiency level.

5. The system of claim 1, wherein the selecting is based on each of the computing devices in the subset of the plurality of computing devices being associated with resource information that satisfies a minimum energy cost level.

6. The system of claim 1, wherein the operations further comprise:

determining a time period utilized by the first computing device in processing the first transaction as part of the first block that is added to the primary distributed public ledger; and

storing the time period as part of the resource information associated with the first computing device.

7. A method for providing a resource-based distributed public crypto currency blockchain, comprising:

receiving, by at least one system provider device, first crypto currency transaction information for a first crypto currency transaction that is configured to provide for a transfer of a crypto currency to a payee via a primary distributed public crypto currency blockchain that is maintained by a plurality of computing devices;

identifying, by the at least one system provider device, resource information that was provided by each computing device included in the plurality of computing devices prior to the receiving of the first crypto currency transaction information, wherein the resource information is part of a respective second crypto currency transaction that was broadcast via a network by each computing device included in the plurality of computing devices, wherein each respective second crypto currency transaction is directed to a secondary distributed public crypto currency blockchain address in the primary distributed public crypto currency blockchain;

selecting, by the at least one system provider device based on the resource information that was provided by each computing device included in the plurality of computing devices, a subset of the plurality of computing devices for processing the first crypto currency transaction; and

broadcasting, by the at least one system provider device via the network to each computing device included in the subset of the plurality of computing devices, the first crypto currency transaction information for the first crypto currency transaction in order to cause a first computing device in the subset of the plurality of computing devices to process the first crypto currency transaction as part of a first block that is added to the primary distributed public crypto currency blockchain.

8. The method of claim 7, further comprising:

receiving, by the at least one system provider device through the network from each computing device included in the plurality of computing devices, the resource information; and

storing, by the at least one system provider device, the resource information in a database, wherein the database is accessible to identify the resource information.

9. The method of claim 7, further comprising:

receiving, by at least one of the plurality of computing devices through the network from each computing device included in the plurality of computing devices, the resource information; and

processing, by the at least one computing device, each second crypto currency transaction as part of at least one second block that is provided in the primary distributed public crypto currency blockchain in order to store the resource information received from each computing device included in the plurality of computing devices in a secondary distributed public blockchain, wherein the secondary distributed public blockchain is accessible to identify the resource information.

10. The method of claim 9, wherein the secondary distributed public blockchain is a sidechain that is linked to the primary distributed public crypto currency blockchain via the secondary distributed public crypto currency blockchain address.

11. The method of claim 7, wherein the selecting is further based on each of the computing devices in the subset of the plurality of computing devices being associated with resource information that satisfies a minimum processing efficiency level.

12. The method of claim 7, wherein the selecting is further based on each of the computing devices in the subset of the plurality of computing devices being associated with resource information that satisfies a minimum energy cost level.

13. The method of claim 7, further comprising:

determining a time period utilized by the first computing device in processing the first crypto currency transaction as part of the first block that is added to the primary distributed public crypto currency blockchain; and

storing the time period as part of the resource information associated with the first computing device.

14. A non-transitory machine-readable medium having stored thereon machine-readable instructions executable to cause a machine to perform operations comprising:

receiving first transaction information for a first transaction that is configured to provide for a transfer of a digital asset to a payee via a primary blockchain that is maintained by a plurality of computing devices;

identifying resource information that was provided by each computing device included in the plurality of computing devices prior to the receiving of the first transaction information;

selecting, using the resource information that was provided by each computing device included in the plurality of computing devices, a subset of the plurality of computing devices for processing the first transaction, wherein the resource information is part of a respective second transaction that was broadcast via a network by each computing device included in the plurality of computing devices, wherein each respective second transaction is directed to a secondary blockchain address in the primary blockchain; and

broadcasting, via the network to each computing device included in the subset of the plurality of computing devices, the first transaction information for the first transaction in order to cause a first computing device in the subset of the plurality of computing devices to process the first transaction as part of a first block that is added to the primary blockchain.

15. The non-transitory machine-readable medium of claim 14, wherein the operations further comprise:

receiving, through the network from each computing device included in the plurality of computing devices, the resource information; and

storing the resource information in a database, wherein the database is accessible to identify the resource information.

16. The non-transitory machine-readable medium of claim 14, wherein the operations further comprise:

receiving, through the network from each computing device included in the plurality of computing devices, the resource information; and

processing each second transaction as part of at least one second block that is provided in the primary blockchain in order to store the resource information received from each computing device included in the plurality of computing

devices in a secondary blockchain, wherein the secondary blockchain is accessible to identify the resource information.

17. The non-transitory machine-readable medium of claim 16, wherein the primary blockchain is a crypto currency blockchain, and wherein the secondary blockchain is a sidechain that is linked to the crypto currency blockchain via the secondary blockchain address.

18. The non-transitory machine-readable medium of claim 14, wherein the selecting is based on each of the computing devices in the subset of the plurality of computing devices being associated with resource information that satisfies a minimum processing efficiency level.

19. The non-transitory machine-readable medium of claim 14, wherein the selecting is based on each of the computing devices in the subset of the plurality of computing devices being associated with resource information that satisfies a minimum energy cost level.

20. The non-transitory machine-readable medium of claim 14, wherein the operations further comprise:

determining a time period utilized by the first computing device in processing the first transaction as part of the first block that is added to the primary blockchain; and

storing the time period as part of the resource information associated with the first computing device.