CLAIMS

What is claimed is:

1. A system to provide an estimated shelf life value for a product within a cold chain distribution system to a user, the system comprising:

at least one information source to provide at least one product information entry relevant to the product within the cold chain distribution system; and

a shelf life estimation system, comprising:

a processor to receive and analyze the at least one product information entry from the at least one information source, and to provide the estimated shelf life value to the user.

wherein the processor utilizes at least one machine learning algorithm to provide the estimated shelf life value.

2. The system of claim 1, wherein the at least one information source includes at least one of a grower information system, a transportation information system, a tracking information system, a warehousing information system, and an inventory information system.

3. The system of any of the preceding claims, wherein the at least one product information entry includes at least one of a product origin entry, a transport time entry, an environmental exposure entry, and a usage information entry.

4. The system of any of the preceding claims, wherein the at least one information source includes a shelf life feedback system, comprising:

a shelf life feedback processor to receive and analyze at least one feedback information entry from at least one consumer feedback source, and to provide a shelf life feedback value to the shelf life estimation system.

5. The system of claim 4, wherein the at least one consumer feedback source includes at least one of a social media source, a consumer application source and a structured data source.

6. The system of claim 4, wherein the shelf life feedback processor utilizes at least one machine learning algorithm to provide the shelf life feedback value.

7. The system of claim 4, the shelf life feedback system further includes a shelf life feedback interface to receive the at least one feedback information entry.

8. The system of claim 7, wherein the shelf life feedback interface presents at least one decision junction to the user.

9. The system of claim 7, wherein the shelf life feedback interface utilizes at least one of a probabilistic model and a deterministic model.

10. A method to provide an estimated shelf life value for a product within a cold chain distribution system to a user, the method comprising:

providing at least one product information entry relevant to the product within the cold chain distribution system via at least one information source;

receiving the at least one product information entry for the product from the at least one information source via a processor;

analyzing the at least one product information entry for the product from the at least one information source via the processor; and

providing the estimated shelf life value to the user via the processor, wherein the processor utilizes at least one machine learning algorithm to provide the estimated shelf life value.

11. The method of claim 10, further comprising:

providing at least one feedback information entry for the product via at least one consumer feedback source;

receiving the at least one feedback information entry for the product from the at least one consumer feedback source via a shelf life feedback processor;

analyzing the at least one feedback information entry for the product from the at least one consumer feedback source via the shelf life feedback processor; and

providing a shelf life feedback value to the shelf life estimation system.

12. The method of claim 11, wherein the at least one consumer feedback source includes at least one of a social media source, a consumer application source and a structured data source.

13. The method of claim 11, wherein the shelf life feedback processor utilizes at least one machine learning algorithm to provide the shelf life feedback value.

14. The method of claim 11, further comprising receiving the at least one feedback information entry via a shelf life feedback interface.

15. The method of claim 14, wherein the shelf life feedback interface presents at least one decision junction to the user.