CLAIMS

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

at least one information source (102a-102f) to provide at least one product information entry relevant to the product within the cold chain distribution system; and

a shelf life estimation system (120), comprising:

a computer 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 at least one information source (102a-102f) includes at least one of a grower information system (102a), a transportation information system (102b), a tracking information system (102c), a warehousing information system (102d), and an inventory information system (102e); and

wherein the transport information system provides one or more of temperature in the trailer, humidity in the trailer, temperature excursions in the trailer and durations thereof, and if a trailer door has been opened and durations thereof.

2. The system of claim 1, 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.

3. The system of claim 1 or 2, wherein the at least one information source includes a shelf life feedback system (102f), 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.

4. The system of claim 3, 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.

5. The system of claim 3, wherein the shelf life feedback processor utilizes at least one machine learning algorithm to provide the shelf life feedback value.

6. The system of claim 3, the shelf life feedback system further includes a shelf life feedback interface to receive the at least one feedback information entry.

7. The system of claim 6, wherein the shelf life feedback interface presents at least one decision junction to the user.

8. The system of claim 6, wherein the shelf life feedback interface utilizes at least one of a probabilistic model and a deterministic model.

9. A method to provide an estimated shelf life value for a product to a user, wherein the product is within a cold chain distribution system, 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 (102a-102f);

receiving the at least one product information entry for the product from the at least one information source via a computer processor of a shelf life estimation system (120);

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 at least one information source (102a-102f) includes at least one of a grower information system (102a), a transportation information system (102b), a tracking information system (102c), a warehousing information system (102d), and an inventory information system (102e); and

wherein the transport information system provides one or more of temperature in the trailer, humidity in the trailer, temperature excursions in the trailer and durations thereof, and if a trailer door has been opened and durations thereof.

10. The method of claim 9, 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 (120).

11. The method of claim 10, 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.

12. The method of claim 10, wherein the shelf life feedback processor utilizes at least one machine learning algorithm to provide the shelf life feedback value.

13. The method of claim 10, further comprising receiving the at least one feedback information entry via a shelf life feedback interface.

14. The method of claim 13, wherein the shelf life feedback interface presents at least one decision junction to the user.