

Presentation by
Nafiz Ahmed Sargis Arpita Saha Fariha Mirza

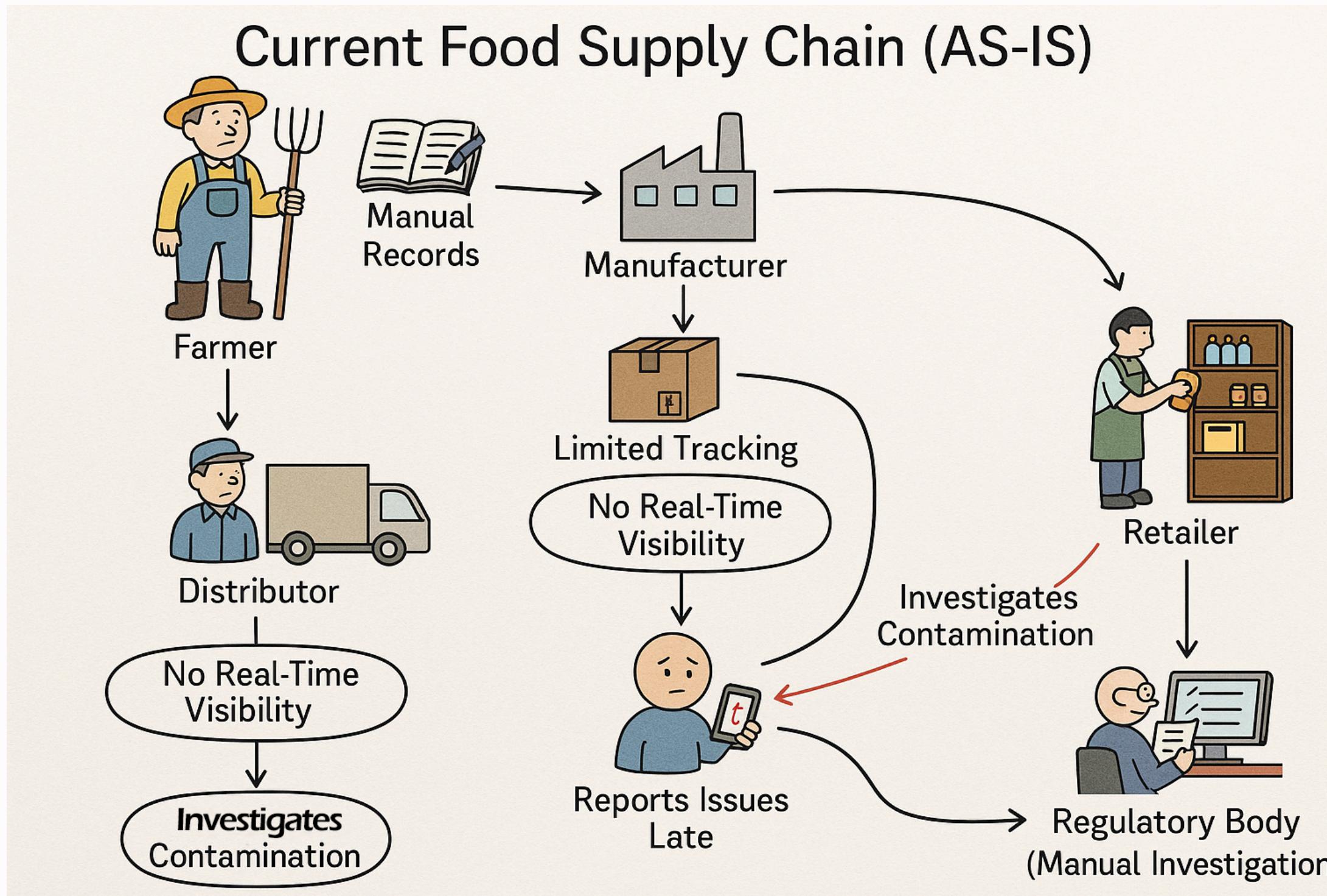


Safe Food: Food traceability system for agricultural products



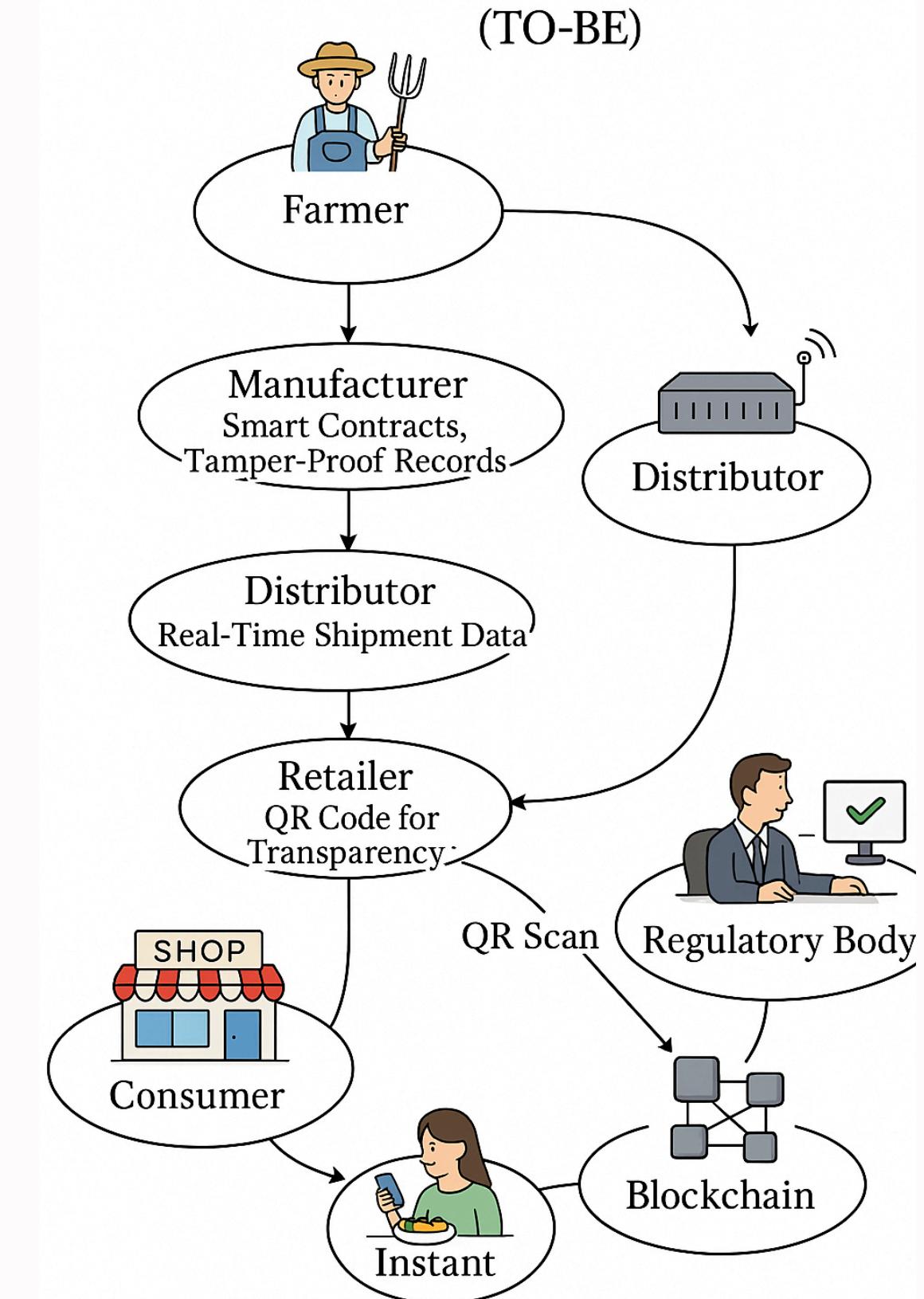
Rich pictures AS-IS vs. TO-BE

Rich Picture: AS-IS

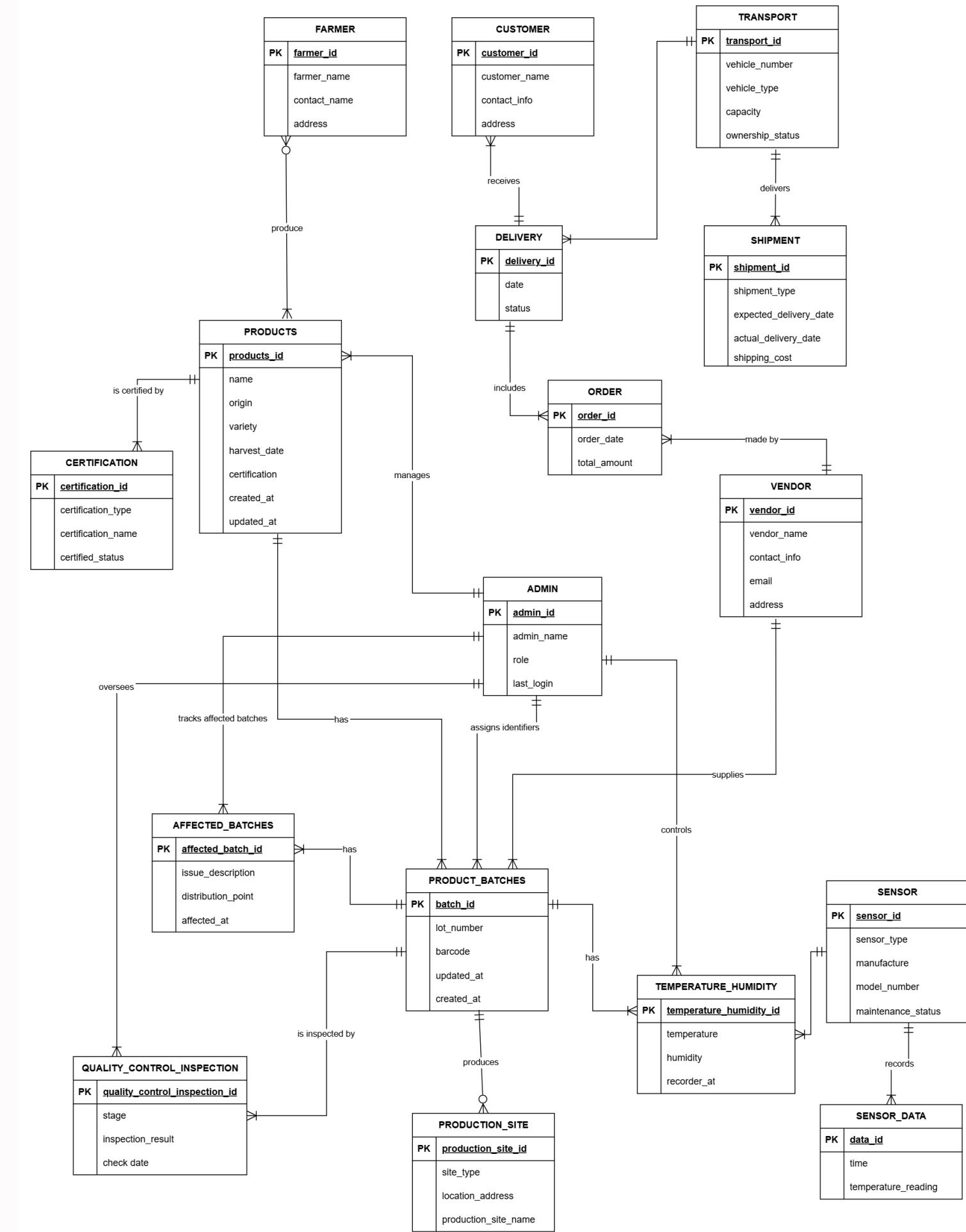


RichPicture: TO-BE

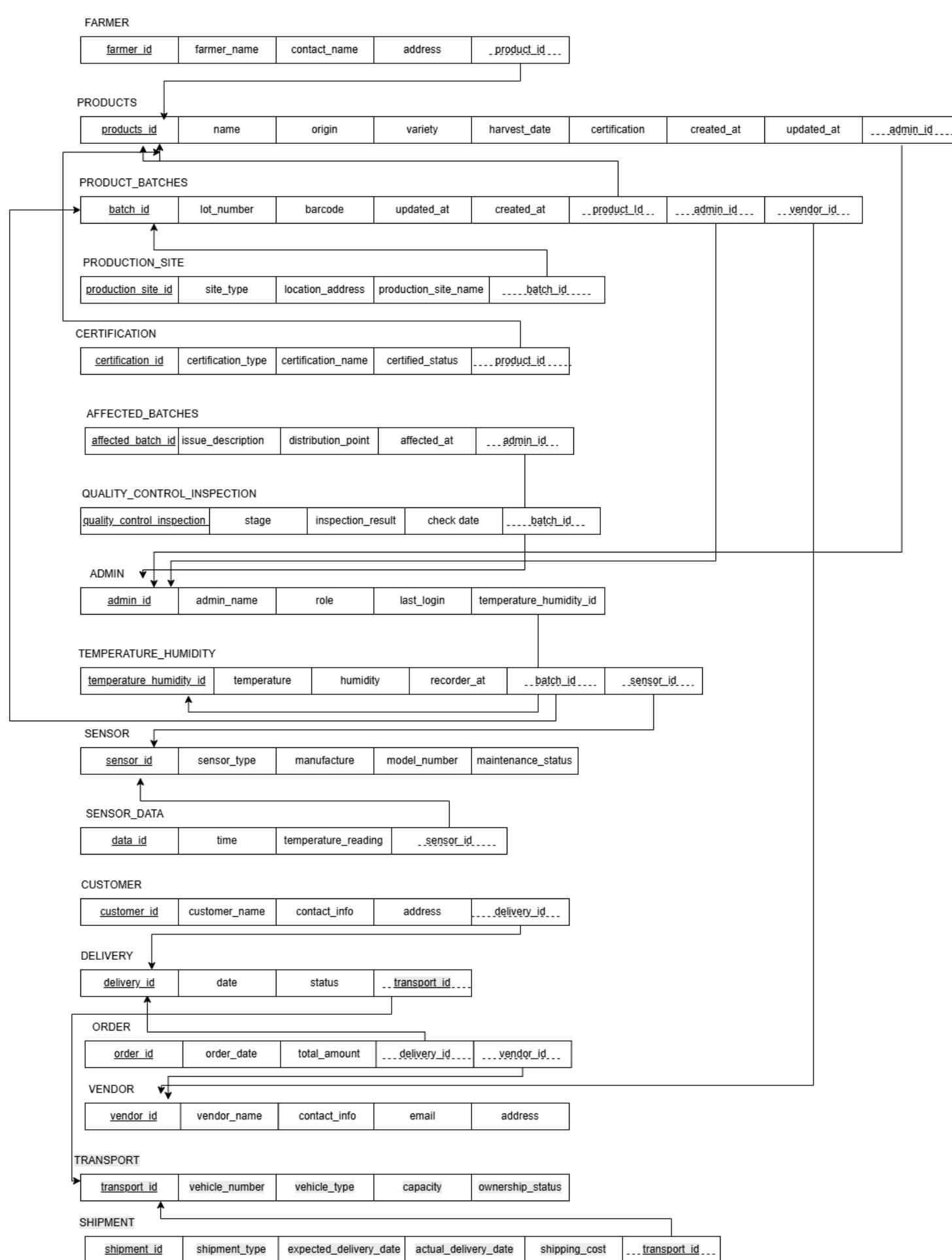
Blockchain-Based Food Traceability
(TO-BE)



Entity Diagram Relation



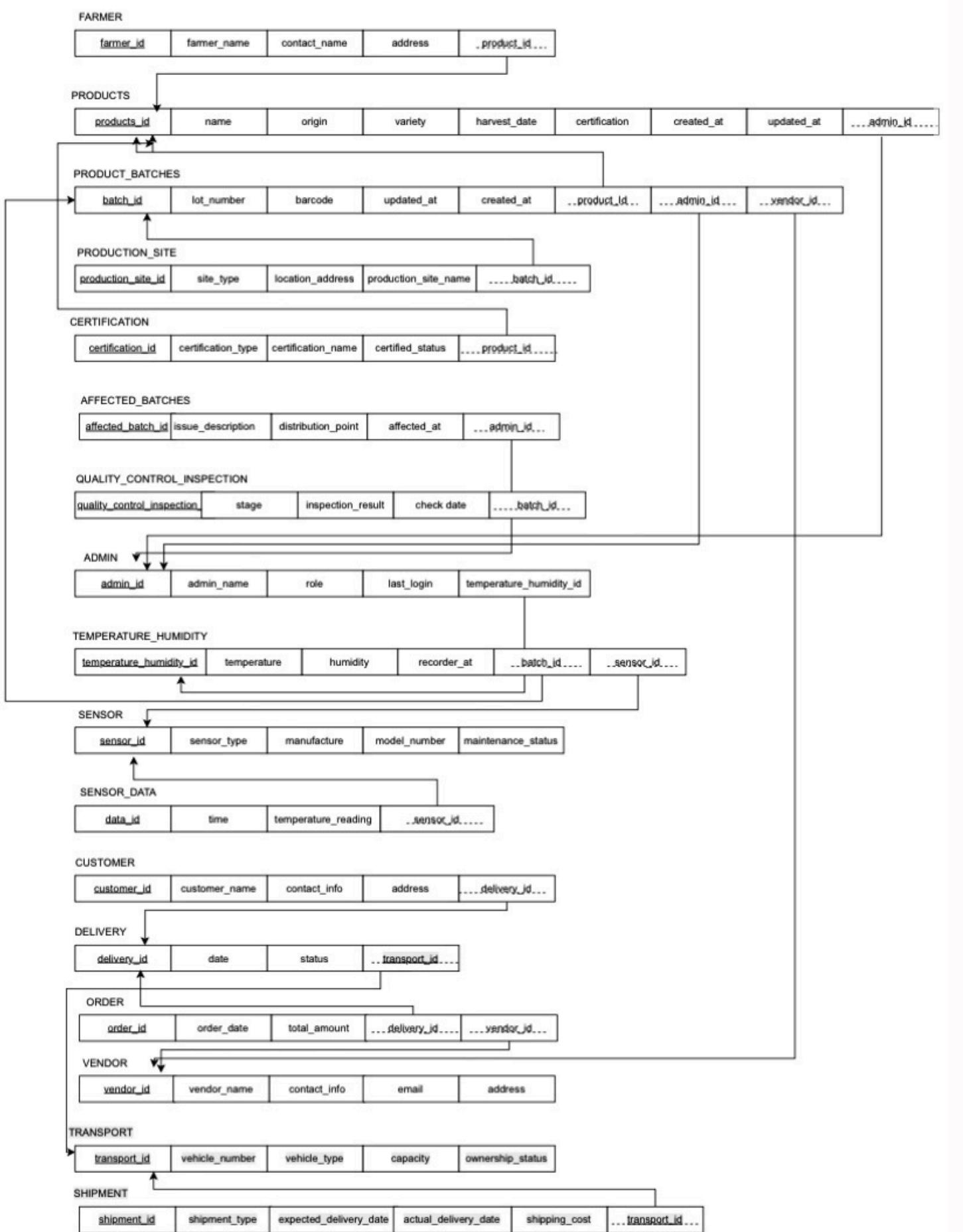
Relational Schema



Normalization

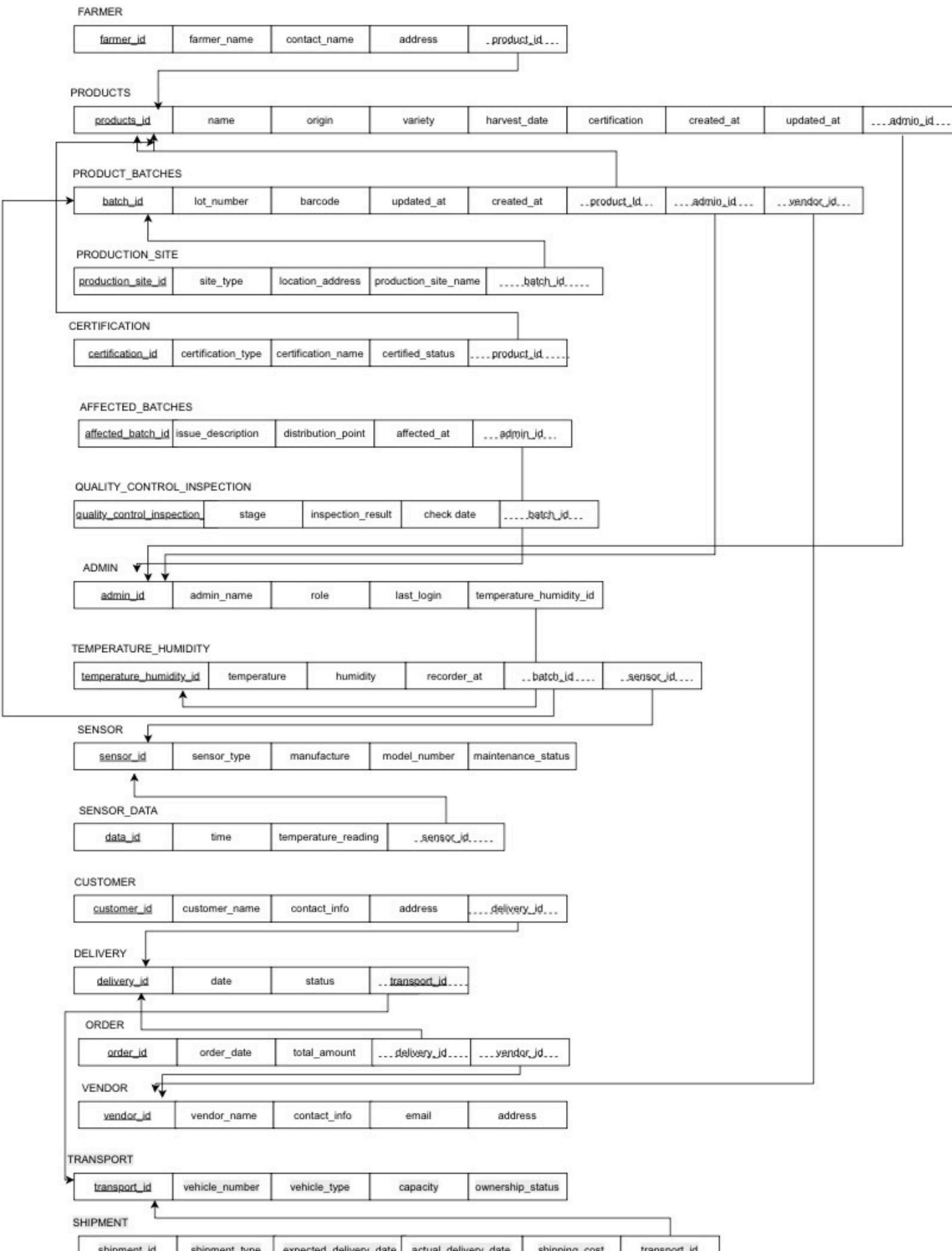
1NF:

All the relations have primary keys. So the relations are in 1NF.



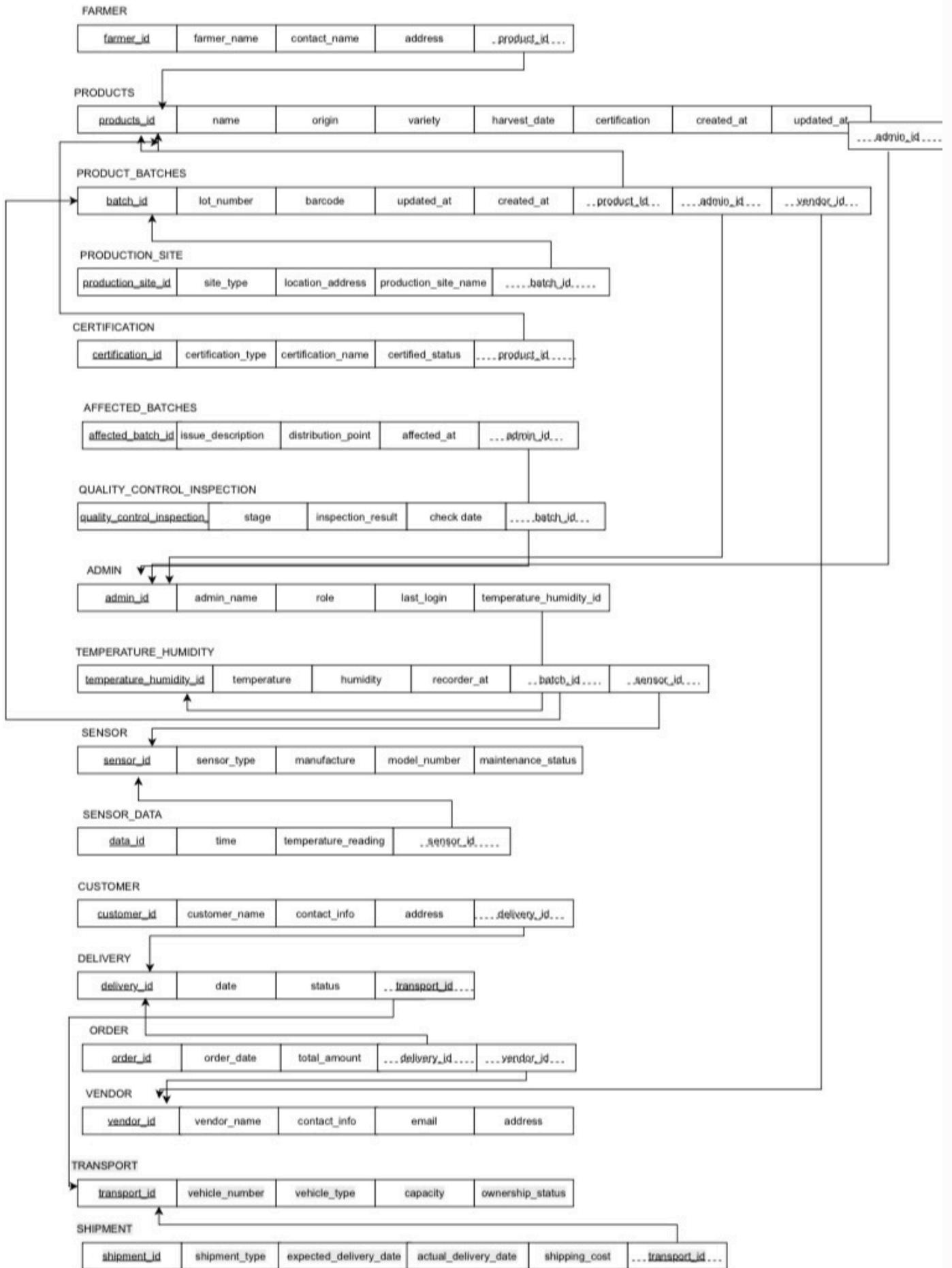
2NF:

All relations in 1NF are also in 2NF, as there is no composite primary key.



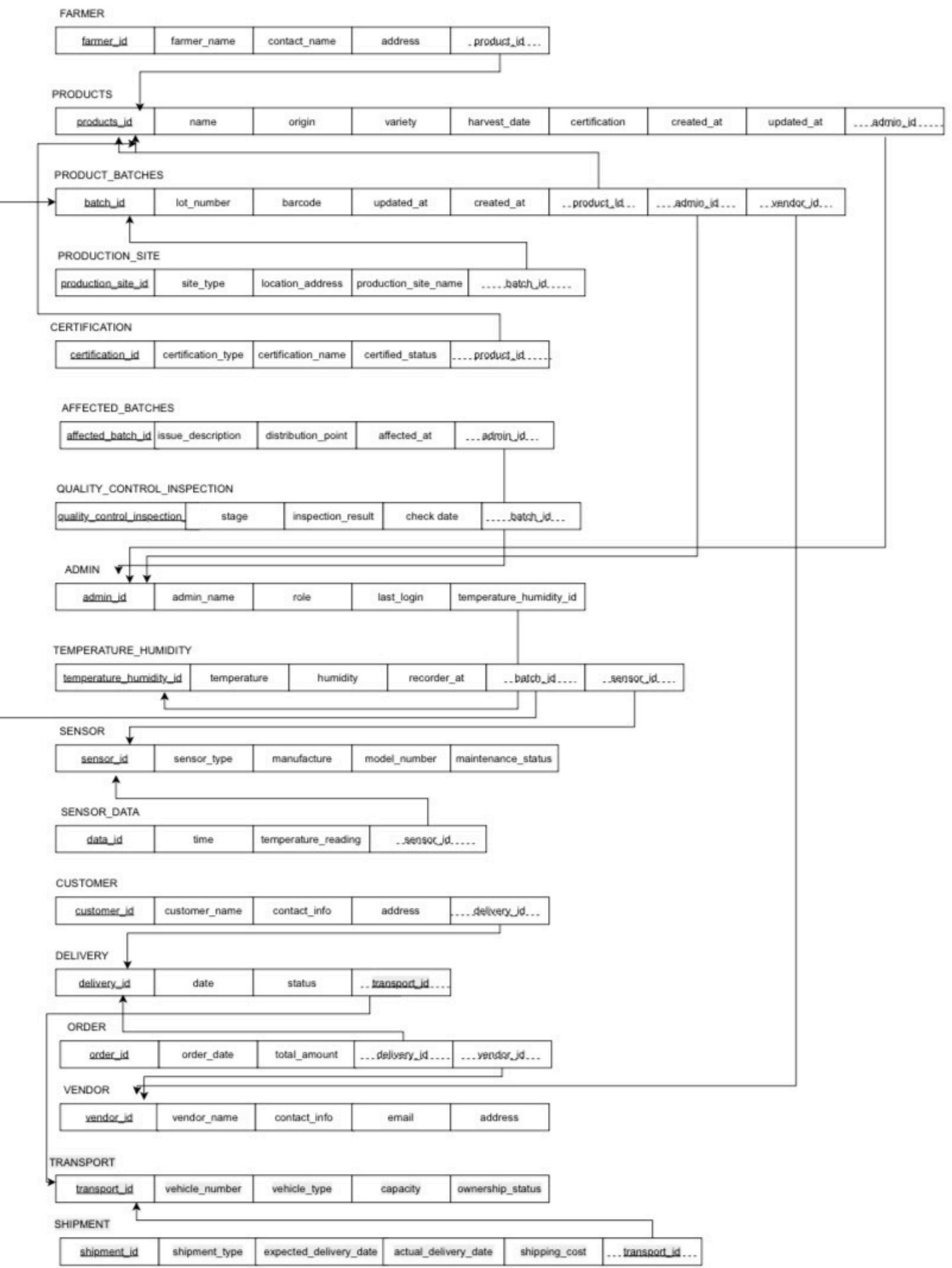
3NF:

All relations in 2NF in are also in 3NF, as non-key identifies any of the primary-key or part of the primary-key.



BCNF:

All relations in 3NF are also in BCNF, as non-key identifies any of the primary-key or part of the primary-key.



Challenges faced

- Designing the final ERD followed by schema and normalization
- Authentication
- Frontend, backend integration
- Analytics

A wide-angle photograph of a massive solar farm at dusk or dawn. The foreground is filled with rows of solar panels, their surfaces reflecting the warm, golden light of the setting or rising sun. The sky above is a vibrant orange and yellow, transitioning into a darker blue. In the far distance, the silhouette of a city skyline is visible against the bright horizon.

Thank you!