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1. Human Centered Design helps us in the Production Process by allowing us to evaluate an issue from the perspective of the prospective users of the product or service. It allows for an iterative process that is wholly centered on people and how the product/service can evolve in order to be of benefit to them
2. The five steps of Design Thinking are as follows:

Empathize; Embedding yourself in the user's experience in order to better understand what is needed for a particular situation.

Define: Specifying the situation the user(s) may be found in. Taking into account who the users are, what is needed, and what other perspectives have been added to your own that can help in designing a solution.

Ideation: The main brainstorming phase. Where iteration begins. There can be no prototype without the concept driving it. As many ideas as possible are shotgunned here.

Prototyping: Creating early models of your design in order to test its effectiveness within the context of what has been defined and ideated. Iteration continues and begins to gain more traction as tangible examples allow for different ideas to be tested.

Testing: Allowing prospective users the ability to interact with the prototype helps the designer REFINE the idea. Data is provided in real time by the users in order to more immediately iterate on the next version of the design.

3. The Apple Watch is a good example of a product made with Human Centered Design, as its main advertised functions are geared towards Health and Ease of Use. By keeping track of the pulse of its user, the Apple watch is able to compile data and keep track of the user's vitals while also sharing it to any relevant personnel. Additionally, it allows for the user easy access to contacts, emergency services, and navigation.
4. Isambard Brunel's train, described by Tim Brown, was designed to allow its passengers the possibility to board on a train in London and then arrive in a boat in New York. He had planned a boat to pick passengers up halfway through. Taking into consideration the feasibility, and viability at the time, it most likely would not have been possible due to limited technology at the time, especially as it wouldnt have been viable due to the emergence of other transportational technologies that could have brought about the obsolescence of the SS Great Western.