values
How might the networked object create unsafe situations for users and/or non-users? (Ex. Texting and Driving) How could that be avoided?
How does the networked object protect user’s information?
How might a power or data outage compromise security of the object’s owner?
Should **users** have access to information captured by the object? Makers? Developers?
Who defines what information will be captured and controls user information captured by the networked object?
Should the object’s user be able to opt in or out to keep the data completely private? Will the producer be able to guarantee it?
What should happen with the data collected by the object if the user disposed of the object or cancels the account?
Might the networked object be in a situation where user privacy is a variable rather than a binary choice?
Should public information captured by the networked object be public for all (users and non-users) or only the user group?
How might the business owner be transparent in the way it uses data from the networked object?
How might the networked object development prevent coding mistakes by developers?
Will the government have access to the data collected by the object?
How might you protect user information that is sent to data centers?
How might we make sure the sensors in the networked object won’t have unintentional access by third parties?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
How might we make sure the sensors in the networked object don’t capture unintended data?
Who will review the massive amount of data collected by the **networked object**? Who will own the data?
FAIRNESS

Does the networked object condone a bias to any user group?
FAIRNESS

Will all **users** (user groups) be on a similar playing field when using the networked object, or will any user groups have unfair advantages?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
How can the networked object be fair to its **user**?
FAIRNESS

How might the networked object create an unfair advantage for users over non-users?
What other objects/businesses will be run out of business with the launch of the networked object?
How might platforms based on this object create fair, competitive markets and companies?
FAIRNESS

Does the networked object condone a bias to any developer/maker group?
FAIRNESS

Does the networked object condone a bias to any distributor group?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
How might the networked object help people understand its impact on the environment?
FAIRNESS

Should the networked object data capturing system be designed for any specific data center?
FAIRNESS

What drives the decision for the **networked object** to be locked into any proprietary standard/technology or not?
How might the networked object be creating any unfair situations for users?
ACCESS / INCLUSION

How democratic is your networked object? Are there any specific requirements for users?
ACCESS / INCLUSION

How might users gain access to the object? Do they have to buy it? Rent it? Subscribe to it?
ACCESS / INCLUSION

Are there any *user* groups that should be prevented from using this networked object?
Will the object discriminate against **users** based on their level of education, wealth, race, social status, age or language?
ACCESS / INCLUSION

If the object is accessible to multiple users (for example a married couple) what happens when someone changes the setting to a single user only?
ACCESS / INCLUSION

Does the networked object allow **users** to perform any new activities they were previously excluded from?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
ACCESS / INCLUSION

Does the networked object require **users** to use any other networked objects together?
Does the networked object create new user segments? (Ex. iOS vs Android)
ACCESS / INCLUSION

How might the networked object allow users to feel as though they are part of a tribe?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
ACCESS / INCLUSION

What level of involvement is the user required to have with this networked object and others that are related/connected to it?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
ACCESS / INCLUSION

Does the networked object keep non-users disconnected from any activities?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
Does the material, form, software exclude anyone within the potential users? Does it force non-users out of the market?
ACCESS / INCLUSION

How easy is it for a non-user to become a user?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
ACCESS / INCLUSION

How might the networked object open up new lines of business by bringing in a different group of users?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
How might **businesses** manufacture the networked object in ethical ways?
ACCESS / INCLUSION

How might a platform based on this object create **business** opportunities for different groups of people?
How might the networked object allow excluded developers and makers to participate in its development?
ACCESS / INCLUSION

What skills might makers/developers need to develop in order to make the networked object? (Ex. can it be 3d printed?)
Does the choice of distribution include any disenfranchised groups?
What existing distribution channels might the networked object need to work within? Can it bypass them?
Does the choice of **distribution** exclude any portion of society?
ACCESS / INCLUSION

How might the networked object create a more inclusive society?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
ACCESS / INCLUSION

How might other networked objects be included in the product ecosystem?
ACCESS / INCLUSION

How might networked objects use **data centers** to share data in ethical ways?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
ACCESS / INCLUSION

Does the choice of **sensors** used in the networked object exclude any potential user group?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
When multiple sensors monitor similar things, how is the decision made to favor one vs the others? Is one favored?
ACCESS / INCLUSION

How might the networked object ‘decide’ to include and connect up with others? Is this strictly a functional decision?
EMOTIONAL

Will this networked object create any habits or persuade the user into continuous use?
How will the networked object affect users in regards to anxiety, depression?
What new experiences will this networked object allow users to cultivate?
EMOTIONAL

What feelings will the use of this networked object generate among users?
How might this object be pleasant to use for both users and non-users?
Does the object encourage the user to withdraw from interacting with people? Does it make the user feel isolated and lonely?
Does using the object create unhealthy habits for users?
Does the object create a new source of stress for the user?
How might the object emotionally impact a non-user?
How can we make the development platform fun for makers?
Is this object a joy to make?
Is this object a joy to sell?
How might data from the object help people and society make choices they feel good about?
Do the aesthetics of the object “speak” to any specific user segments?
AESTHETICS

How can there be subtle craftsmanship in the user interaction design of this object?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec
What kind of emotions and moods will the object’s aesthetic appearance evoke in users?
AESTHETICS

Is this networked object always present and visible (perceptible) to the user?
Do the aesthetics of the object exclude any specific user segments? Does it create any non-users?
How might non-users perceive users of this networked object?
How might interactions with the networked object reinforce the company’s brand?
Can we create a platform for development that is elegant?
How might the networked object help people value the environment?
AESTHETICS

What do the aesthetics of the networked object say about it?
How might the networked object balance tradition and innovation, as it pertains to style?

Authors: Forlano, Ichikawa, Jung, Rad, Baccarelli Justino, Vodopivec