STEP()
SHE NEEDS

TO BUY FOOD

SALAMI DANOIS

I HAVE 4 GUESTS SO I WANNA BUY 4 PORTIONS

OK, THIS IS TOO MUCH, SHOULD I REMOVE SOME TOMATOES?

SALAMI DANOIS

STEP(2)

PREPARE

THE MEAL

SHE NEEDS TO

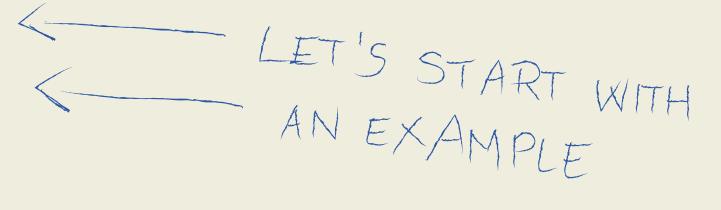
Why do we waste food?

Various individual behaviors can lead to food waste. For example, over-provisioning, i.e., when one buys more than needed, means more food is bought and potentially wasted if not consumed in time. At home, pared which can be saved for later as leftovers, but cooked food that is not fresh anymore.

Food Waste Alert!

According to the FAO, in 2011 one third of the food produced worldwide ended up wasted. In 2016, the European report of the FUSIONS project indicated that 53% of food waste came from thouseholds.

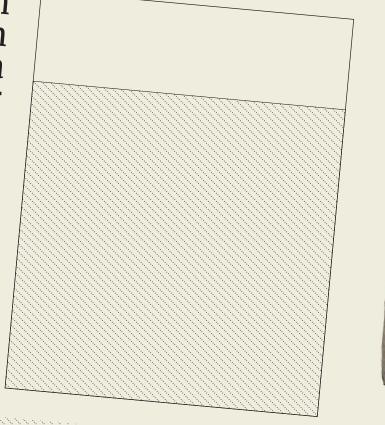
What can we do as visualization researchers?





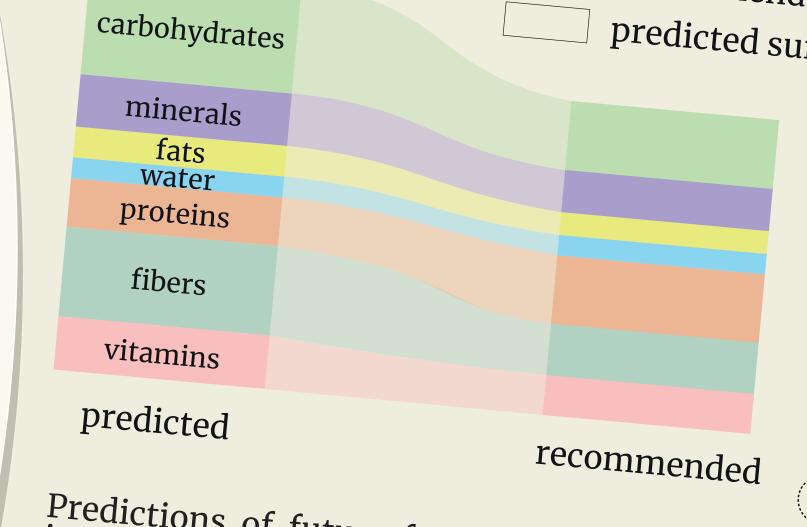
Visualizations of food quantities can be abstract or even realistic and can show the recommended quantity for a given number of portions with either the predicted surplus of food or the predicted shortage.

However, more details might be needed to make informed decisions on what ingredients to add or remove in order to get an appropriate dish based on specific diets for example.

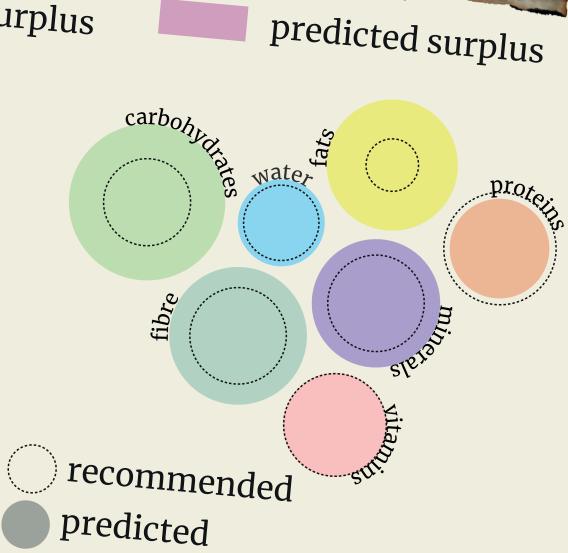


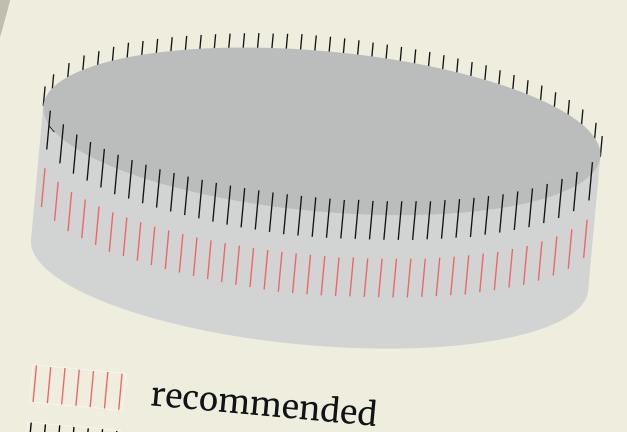
recommended predicted surplus



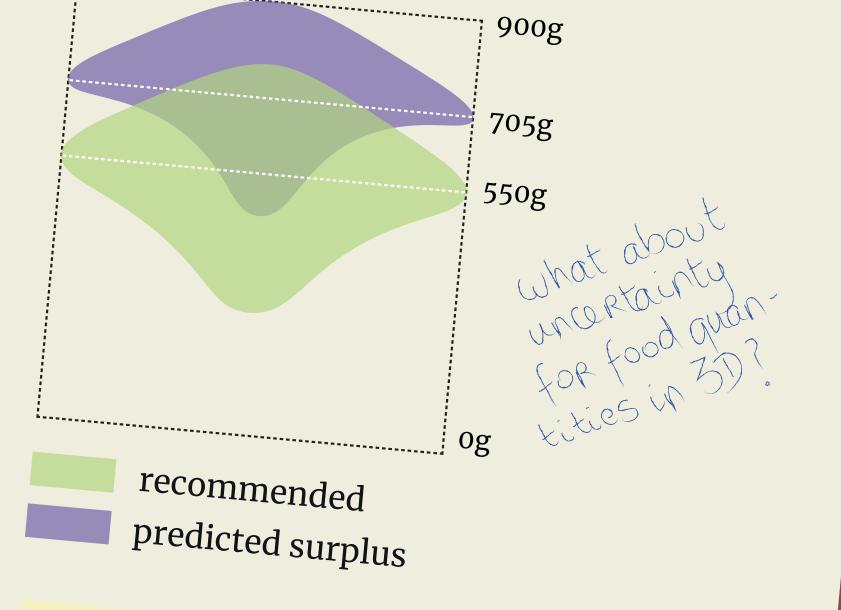


Predictions of future food quantities involve uncertainty and therefore, such visualizations could display that information.





|||||| predicted Predictive visualizations are "uncertainty visualizations that show plausible outcomes" [Koval & Jansen, 2022]

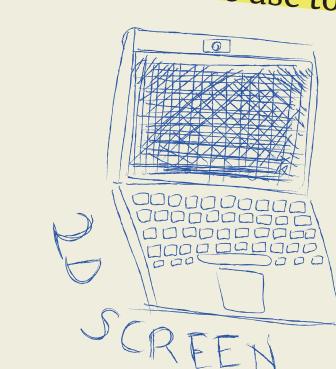


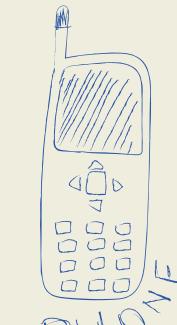
recommended predicted surplus

Visualization Challenges

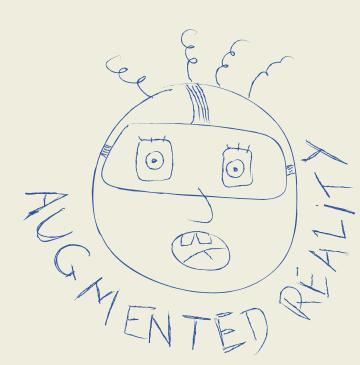
Everyone is different. Designing an effective visualization can thus prove to be difficult as the same approach can prompt different effects depending on wealth, needs or culture for example.

New technologies open new doors but also a new question: what modalities should we use to visualize food quantities?









In what other ways could visualization help reduce individual food waste through a better management of food quantities? What type of visualization email at **morgane.koval@inria.fr**What other ways could visualization help reduce individual food waste through a better management of food quantities? What type of visualization email at **morgane.koval@inria.fr**

1 ONLY NEED GREEN

AT HOME

What quantity should you prepare?

Will you have time to eat your leftovers?

How much should you bruy?
Will the products last longeragh?

PEAS IN THIS AISLE