# Better taste, less waste? Food acceptance, intake and plate waste measurement in Swiss school canteens

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## Project goals

Develop a methodology to measure food acceptance, waste and nutrient losses in school canteens.

Measuring the acceptance of lunch in school canteens. Better understanding of:

- Functioning of lunch in school canteens

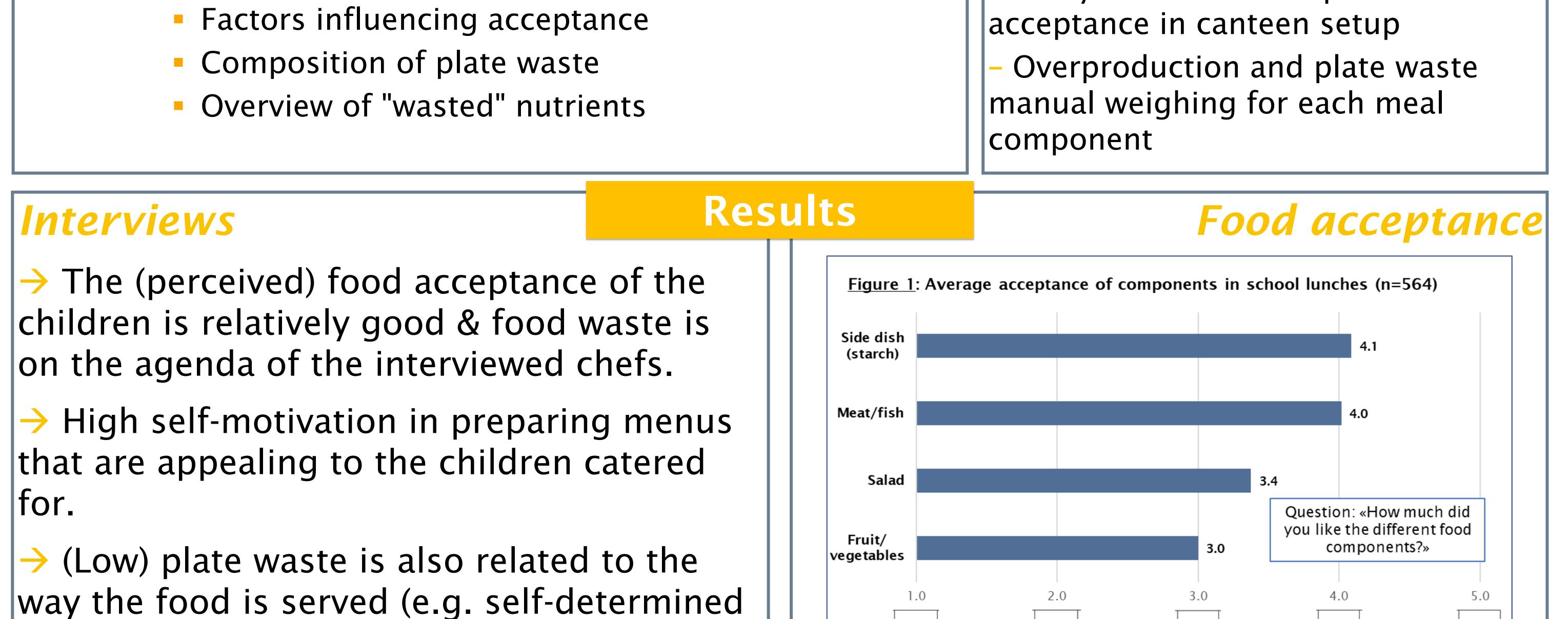
### Material and methods

- Semi-structured interviews with chefs of children's canteens (preschool and school-age) (n=3)

(The canteens are «Fourchette verte» certified.)

- Analysis of meal component





portion size).

 $\rightarrow$  On a regular basis, feedback is sought from children and/or parents, menu planning is adjusted, and new cooking techniques and recipes are tried out.

Chefs consider a discrepancy between the recommended portion sizes of the "Fourchette verte" label and actual consumption  $\rightarrow$  less overproduction.

(<u>••</u>)  $(\underline{\cdot})$  $(\mathbf{\cdot})$  $(\mathbf{\dot{o}})$ Food waste <u>Figure 2</u>: Analysis of food waste in two selected school canteens School 1 School 2 Weighted (n=182)(n=382)average Over-Overfood waste\* Plate waste Plate waste production production Meat/fish 17% 15% 11% 24% 2% Fruit/ vegetables 44% 15% 3% 35% 22% 22% 3% 33% 25% 47% Salad Side dish 16% 2% (starch) 25% 9% 29% \* Note : Part of the overproduction is either given to staff or frozen after mealtime and can thus be reused.

However, this share varies and was not recorded.

## Preliminary conclusions

Experience and education of staff (e.g. on portion sizes for children) are crucial for reducing food waste.

Sensory education to increase children's acceptance of food takes time! Even if food waste occurs in the process, it is certainly worthwhile.

#### Next steps

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Better understanding of the acceptance of lunch with the help of sensory description Nutrient loss measurement in meals in selected school canteens

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