

BSH Hausgeräte GmbH | Company Facts





Factories









































BSH | Corporate Innovation



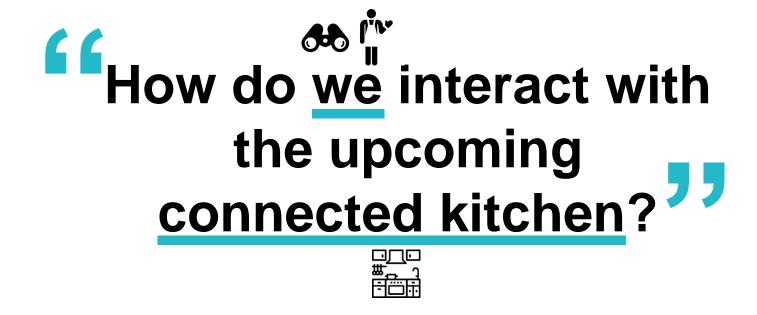


To All to A Light College South Coursiness models

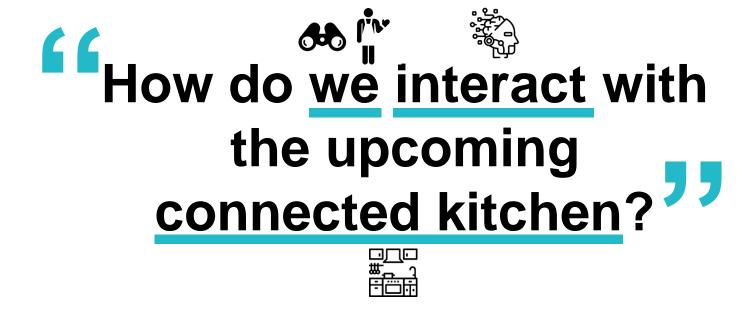
How do we interact with the upcoming connected kitchen?

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KUI | Main Question



KUI | Main Question



Kitchen of the Future | Trends



Social Kitchen



Flexible Use



Multi-Functionality



Connected Appliances



User Needs 1 | Fields of Interest



Fields of Interest are social and cultural trends which determine the users' needs. The intelligent connected kitchen supports the user in performing the tasks.

- 1 Healthy Living
- Inspiration and Improvisation
- 3 Simplification and Focus
- 4 Social Connection
- **Transparency**Creative Control and

Fields of Interest | Healthy Living

Possibilities

- Nutritional information
- Dietary programs, food intolerances
- self-monitoring, self-control and responsibility/ guilt
- conscious consumption: sacrificing convenience for greater good
- Support for oneself and family
- **-** ...



Possibilities

Fields of Interest | Inspiration and Improvisation

- Inspiration through "in-the-moment suggestions"
- Simple ideas for cooking and eating
- Surprising Interplay of Home Elements/ Appliances
- Mistakes and Workarounds
- Ingredient replacement while cooking or running out of something
- Detection of mistakes while cooking/baking and suggest workarounds
- Based on what's in your fridge or your cooking history
- **.** . . .



Fields of Interest | Simplification and Focus

- Reduction of multitasking
- Reduction of visual/ cognitive overload
- Need for natural and simple interactions that notify the user
- undistracted focus (also as a function of self improvement)
- concentration on one task
- kitchen must fulfil its numerous functions in a quick and effective way



Fields of Interest | Social Connection

Possibilities

- meaningful connection & intimacy
- collaboration for inspiration & motivation
- share our experiences at home with others
- feeling of being embedded into a social environment
- social responsibilities





Fields of Interest | Creative Control and Transparency

- not controlled by the digital world, staying in charge
- feedback and reassurance (control/ transparency/ notifications)
- supporting inhabitants to feel empowered and reassured to handle complexity and to see and feel personal choice and self-control.
- retaining self-efficacy (~ Selbstwirksamkeit)

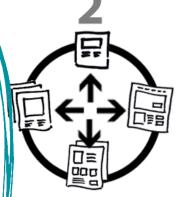


User Needs | Context of Use Analysis





- what are their needs
- what is the context
- competitorreview formulate strategy



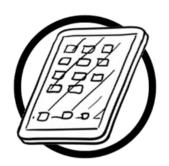
diverge

- envision
- developlots of solutions
- ideate



decide

- · choose the best idea
- · storyboard the idea



prototype

- build something quick and dirty to show to users
- · focus on usability notmakingit beautiful



validate

- show the prototype to real users outside the organisation
- learn what doesn't work

User Needs | Jobs, Journeys and the Customer Profile Map

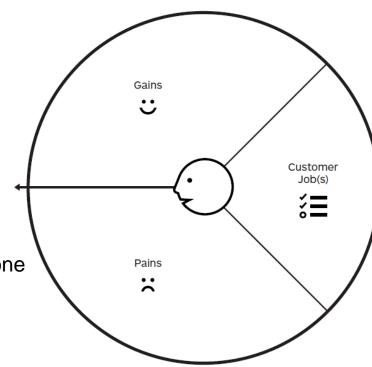


GAINS:

- Desired results & outcomes
- Social gains
- Functional goals
- Positive emotions
- Cost savings

PAINS:

- Annoying
- Hindering from getting job done
- Undesired outcomes
- Problems
- Obstacles
- Risks
- Unfulfilled needs



JOBS:

- Task to perform
- Things to be done
- · Problems to solve
- Needs to satisfy

Jobs can be clustered in Journeys.

Interaction | Characteristics of <u>Future</u> Intelligent Systems





Interaction | Characteristics of Future Intelligent Systems



- 1 Personalization
 - 2 Context-Awareness
 - 3 Autonomy
 - 4 Adaptive Multi-Modal Interaction
 - 5 Designed for Experience
- 6 Connected to Appliances



... personalized and individualized provision of services, information and products. ;



Interaction | Context Awareness



... sensing and utilization of information such as time, location, device, identity, user, role, privilege level, activity, task, process and nearby devices/users.





... independent planning, deciding and acting based on given situation and admission.__



Interaction | Adaptive Multi-Modal Interaction



.... the interaction with intelligent systems utilizes multiple human senses, the use case determines the interaction modality....





Interaction | Designed for Experience

... enhancing user satisfaction with a product by improving the usability, accessibility, and pleasure provided in the interaction with the product, addressing all aspects of a product or service as perceived by users. ""



Interaction | Connected to Appliances

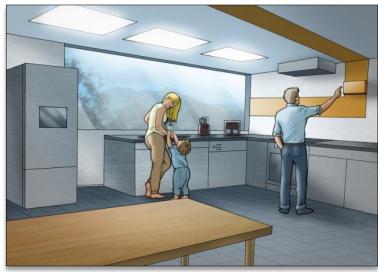
... being able to collect, exchange and utilize information with the appliances in the connected kitchen.



Interaction | Where is the interaction and the intelligence?









Mobile Integrated Ubiquitous

KUI | Summary



- Social Kitchen
- Flexible Use
- Multi-Functionality
- Connected Appliances



Jobs/ Pains/ Gains

Interaction Concepts for the upcoming connected kitchen

- Healthy Living
- Inspiration and Improvisation
- Simplification and Focus
- Social Connection
- Creative Control and Transparent



- Personalization
- Context-Awareness
- Autonomy
- Adaptive Multi-Modal Interaction
- Experience Design
- Connected to Appliances

... select one.

KUI | How do we interact with the upcoming connected kitchen?









BACKUP