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Appropriate technology?



WakaWater

Designed to be "appropriate" to the context of its use

Including the environmental, ethical, cultural, social, political, and economical context.



Soccket



Q drum



Conditions of appropriate technology















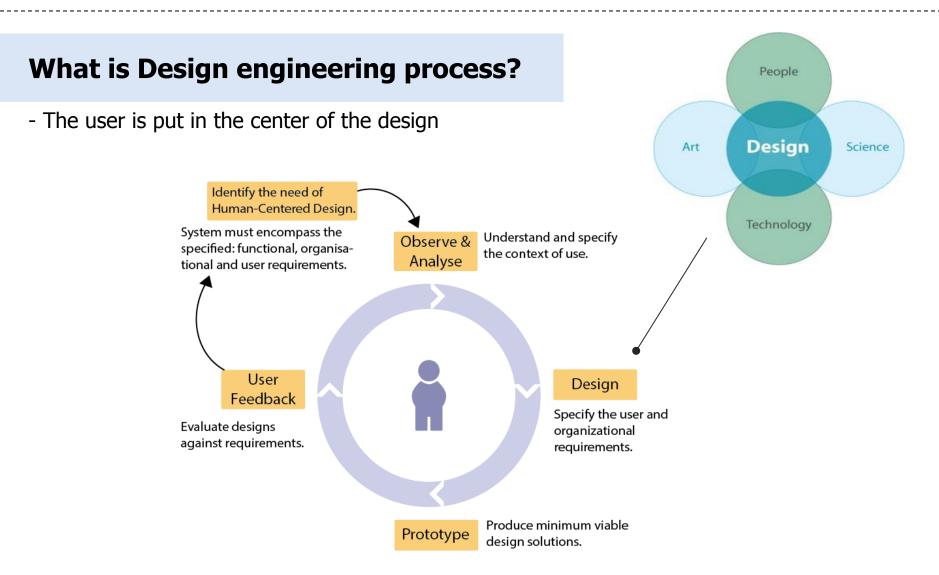






(인용 및 발췌: (적정기술이란 무엇인가?), 김정태, 홍성옥 지음)

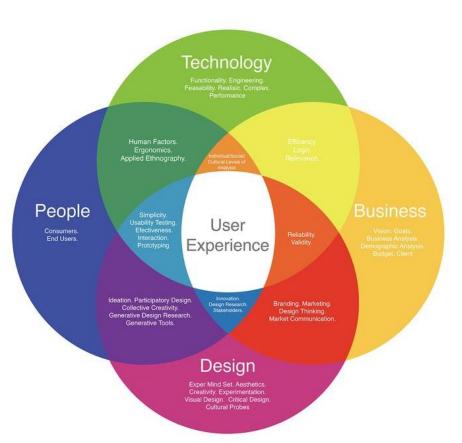






What is User Centered Design?

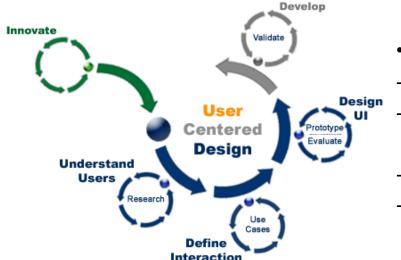
- User Experience is the sum experience of a user interacting with a product.



- Principles of humancentered design?
- Active involvement of users
- Appropriate allocation of function between user and system
- Iteration of design solutions
- Multidisciplinary design teams



What is User Centered Design?

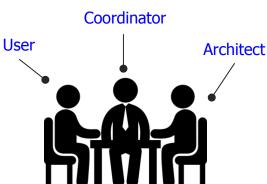


- **Essential activities in User-centered design:**
- Understand and specify the context of use
- Specify the user and organizational requirements
- Produce design solutions (prototypes)
- Evaluate designs with users against requirements





- User definition
- What is our requirement from each organization?
- What is additional consideration in our prototype?

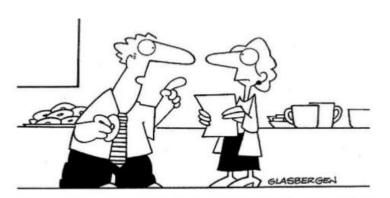




Why User Centered Design approach?

• Why UCD?

- Increased customer satisfaction
- Increased user productivity/efficiency/accuracy
- Increased service/site usage and adoption
- Decreased support and training costs
- Reduced development time and costs
- Reduced maintenance costs



"I'm a manager and I'm in the business for 20 years. I know what the user needs."



• What are 'needs'?

- Users rarely know what is possible
- Users can't tell you what they 'need' to help them achieve their goals



Why User Centered Design approach?

User needs assessment

- Surveys
- Interviews
- Observation
 - Field studies
 - 2. Contextual inquiries
 - 3. Ethnography



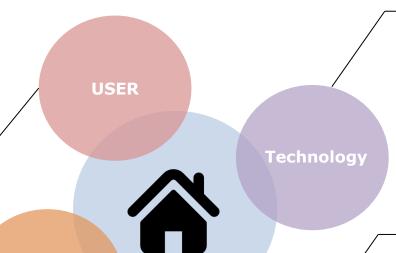






Consideration for earth architecture in case study?

- Usability
- Culture and Background
- Understanding their living pattern
- User feedback
- Participatory workshop
- Education



- Rammed earth housing
- Modular architecture
- Sustainable material
- Compressed soil bricks

ENVIRONMENT

DELIVERY VALUE

- Break the user's prejudice
- Sustainable design
- Mutual growth

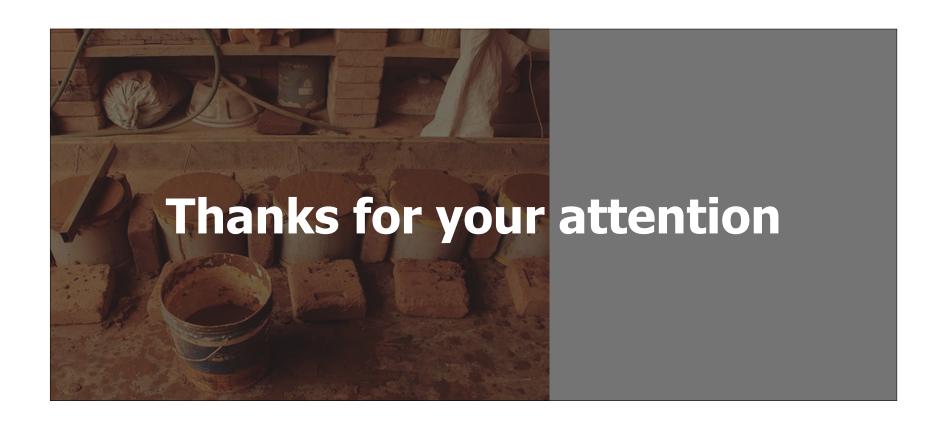
Housing type

• Surrounding environment

- Understanding region
- Study about material
- Housing environmental problem

Reference: 국경없는 과학자들





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