What I'll discuss

- **What's HCD and how can it relate to agile?**
- Product owners and users
- Making movies
- Spaces and schedules
- HCD and technology

What is HCD?

- Human Factors/Ergonomics
- Usability Engineering
- Interaction Design
- User eXperience
- **Human Centered Design**

Marrying HCD to agile

- Many causes for concern about the relationship
- Many reasons to think that it may become a marriage made in heaven
- It certainly requires good thinking, high maturity and quite a few adjustments

Manifesto for Agile Software Development

We are uncovering better ways of developing
software by doing it and helping others do it.
Through this work we have come to value:

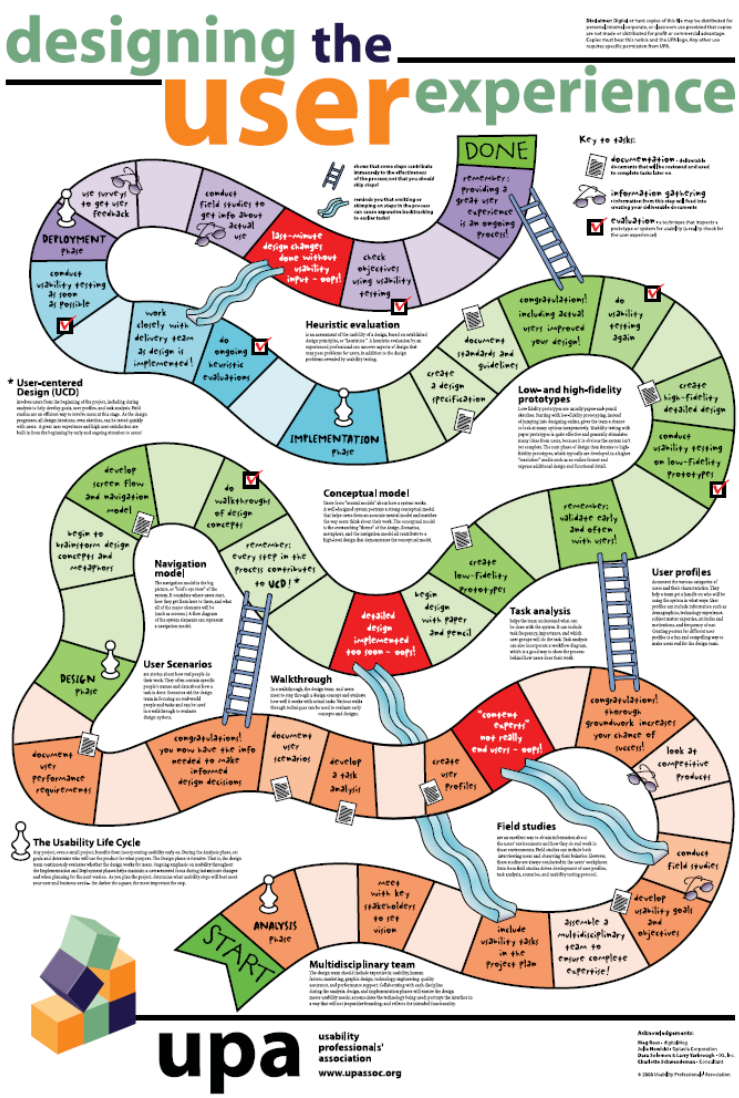
Individuals and interactions over processes and tools

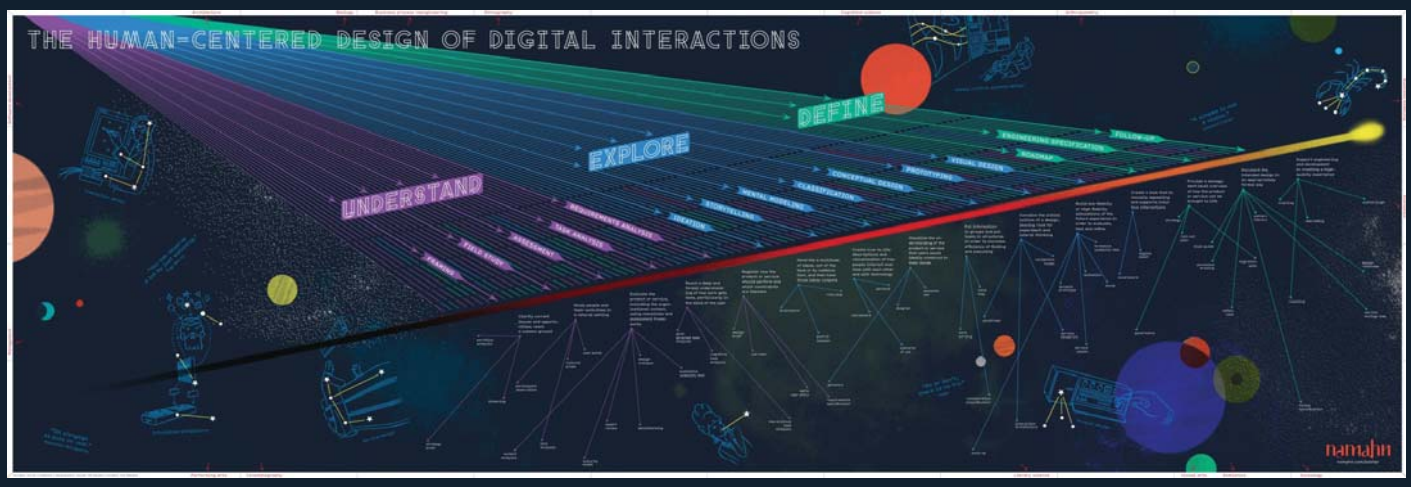
Working software over comprehensive documentation

Customer collaboration over contract negotiation

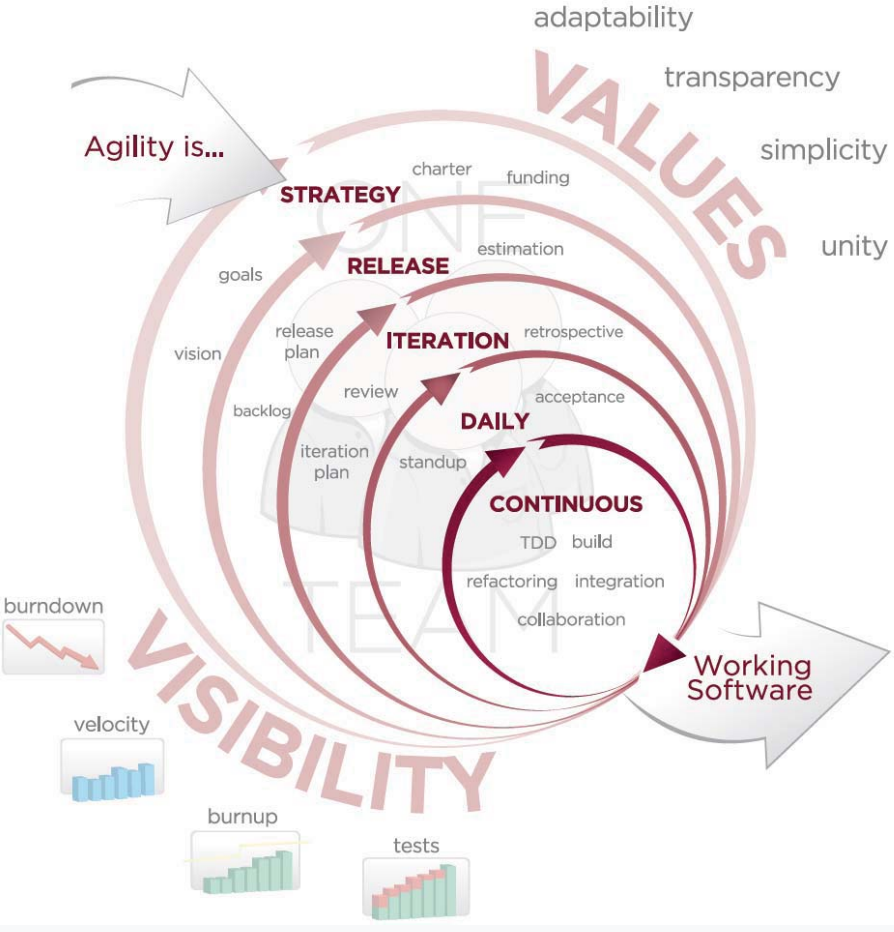
Responding to change over following a plan

That is, while there is value in the items on
the right, we value the items on the left more.





AGILE DEVELOPMENT



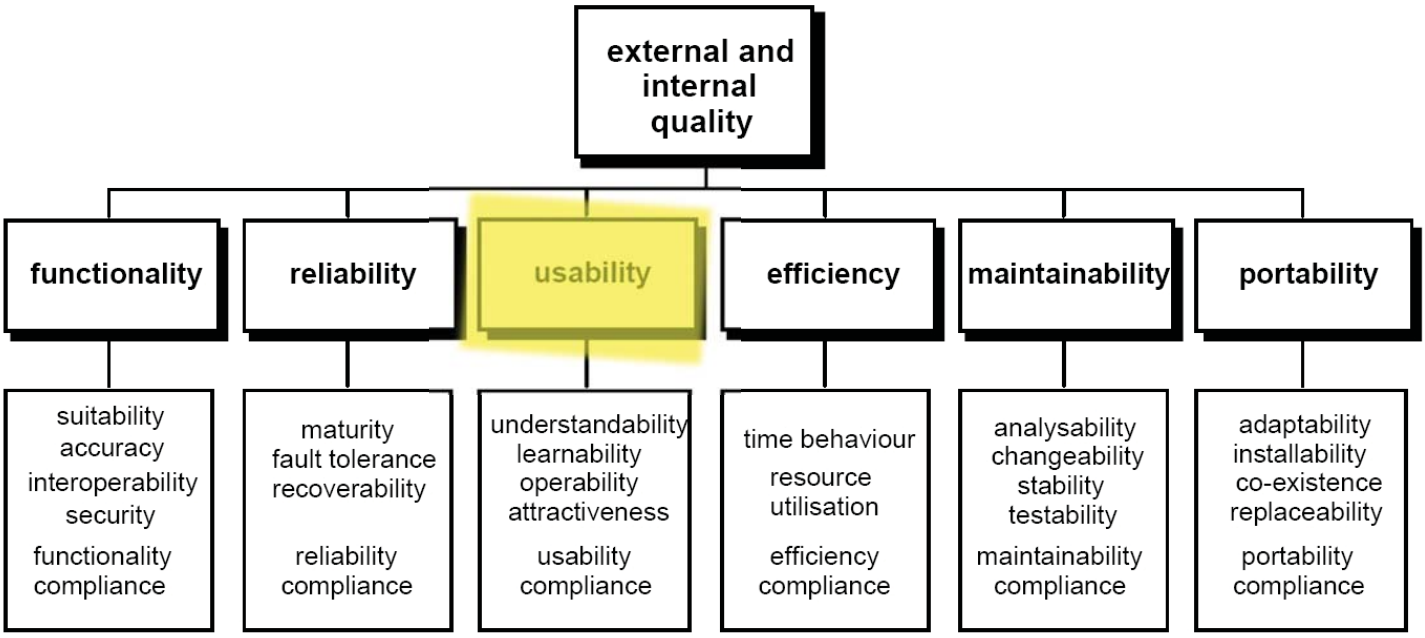


Figure 4 – Quality model for external and internal quality

1. THE PRINCIPLES

We recommend three principles of design.

Early Focus on Users and Tasks

First, designers must understand who the users will be. This understanding is arrived at in part by directly studying their cognitive, behavioral, anthropometric, and attitudinal characteristics, and in part by studying the nature of the work expected to be accomplished.

Empirical Measurement

Second, early in the development process, intended users should actually use simulations and prototypes to carry out real work, and their performance and reactions should be observed, recorded, and analyzed.

Iterative Design

Third, when problems are found in user testing, as they will be, they must be fixed. This means design must be iterative: There must be a cycle of design, test and measure, and redesign, repeated as often as necessary.

My basic position

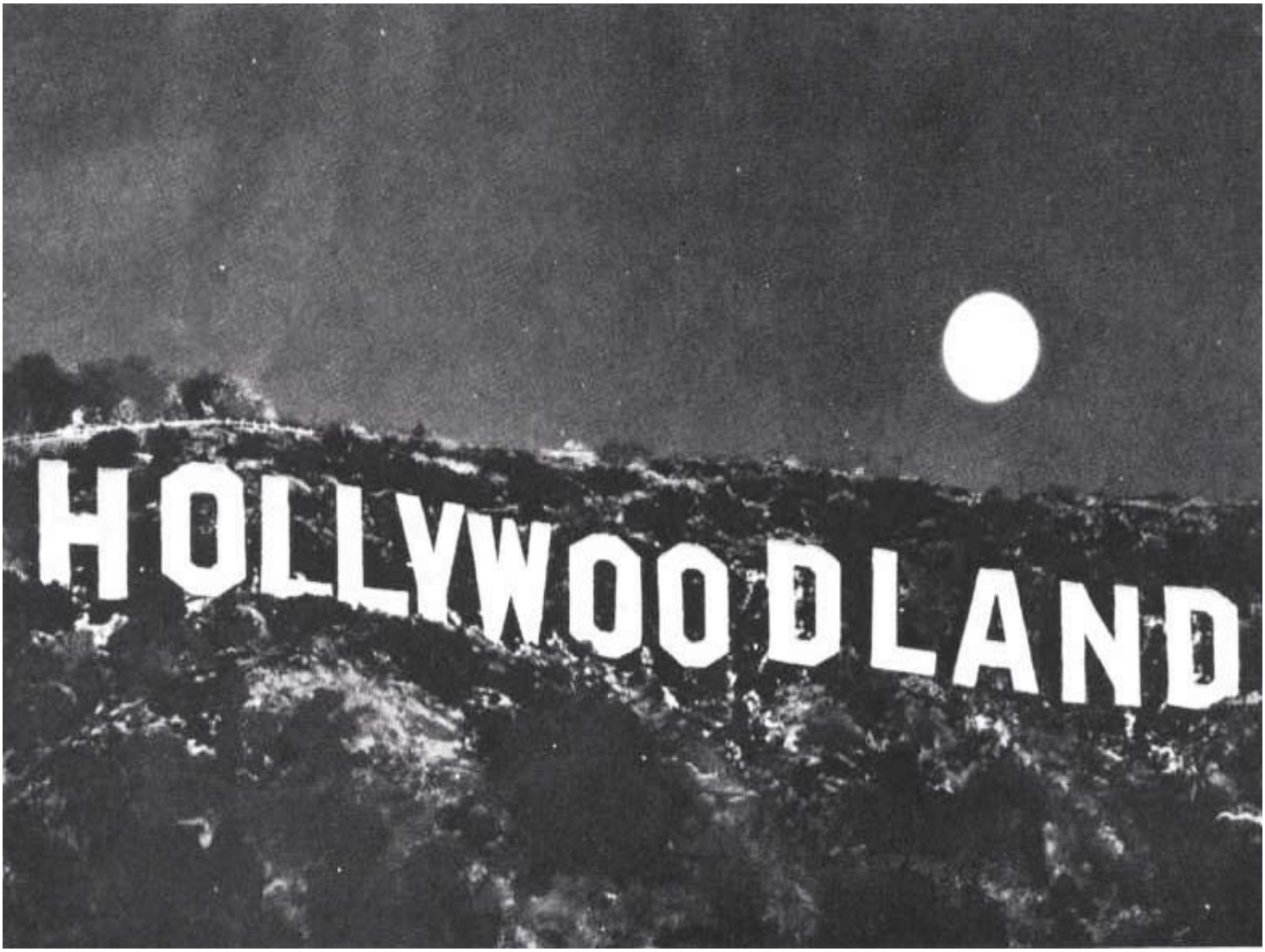
- HCD has to adapt to agile
- HCD can be inspired by agile; and can inspire back
- HCD should contribute in with great humility

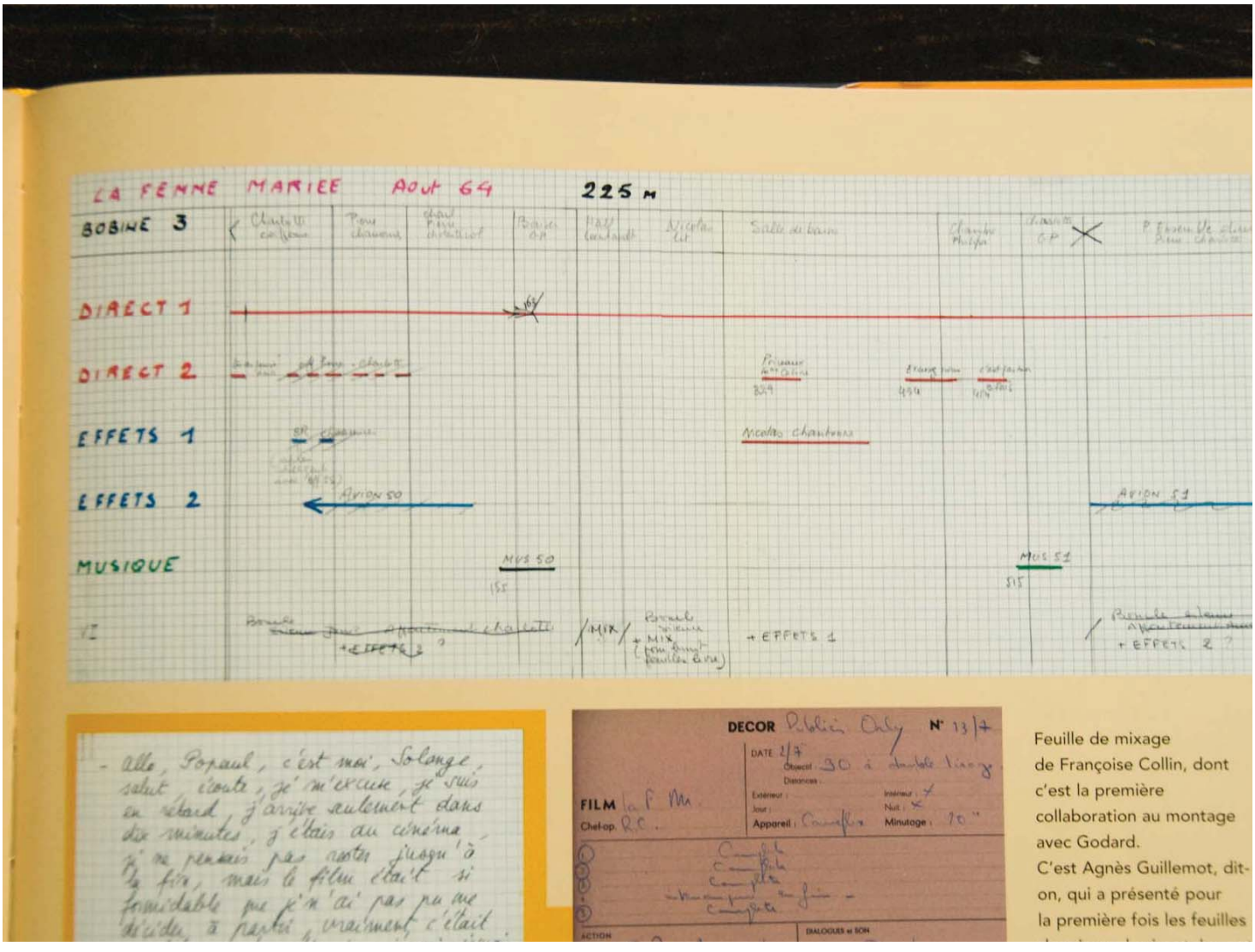
HCD inspired by agile

- Excel in team play
- Be confident in the HCD craft
- Think on your feet
- Apply time boxes
- Go light on deliverables

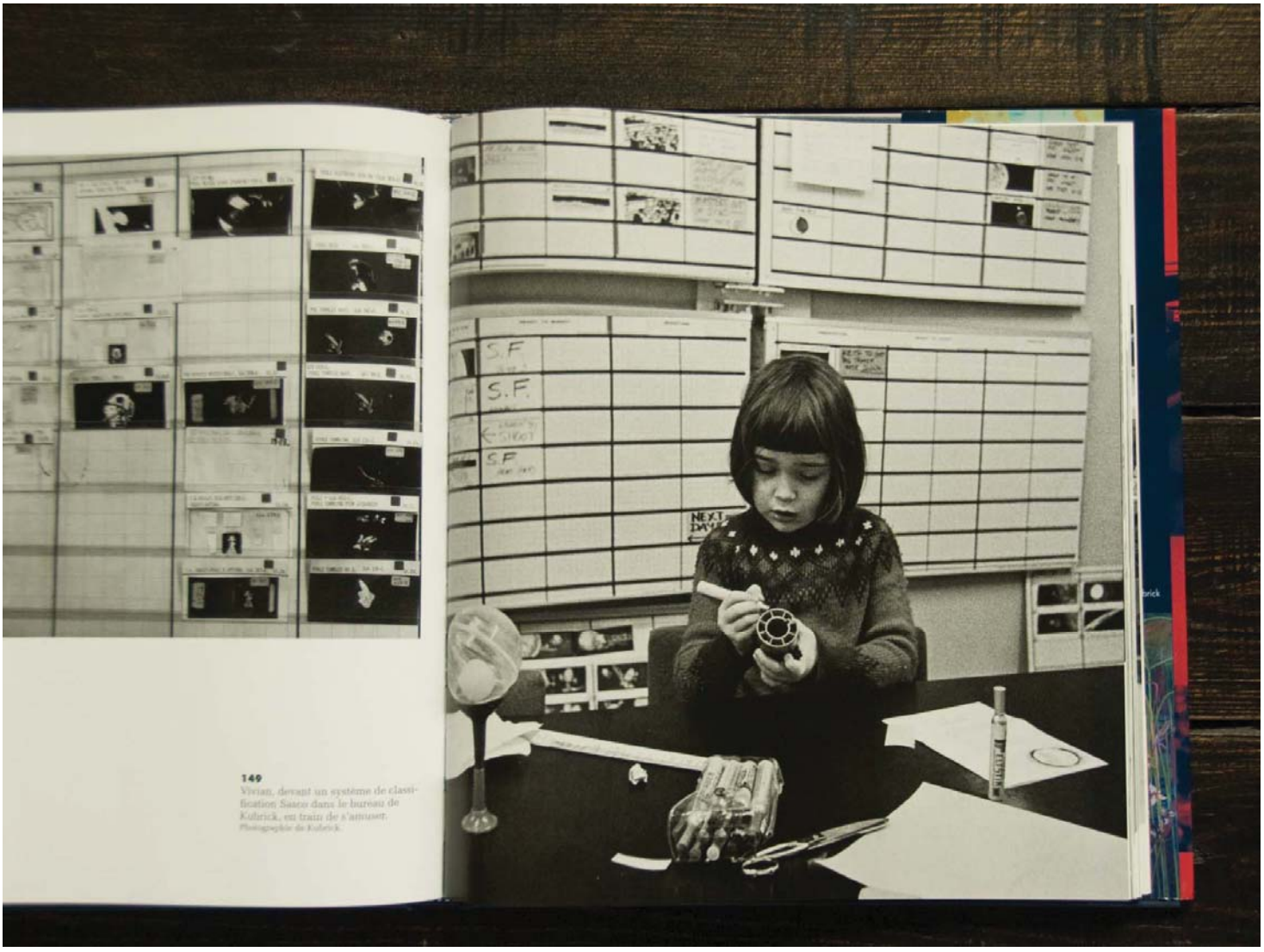
Dealing with users

- Quite daunting for many technologists
- Who is the ‘product owner’?
- How to involve users?
  - Field studies
  - Focus groups
  - Usability test
  - …
  - **Co-design**

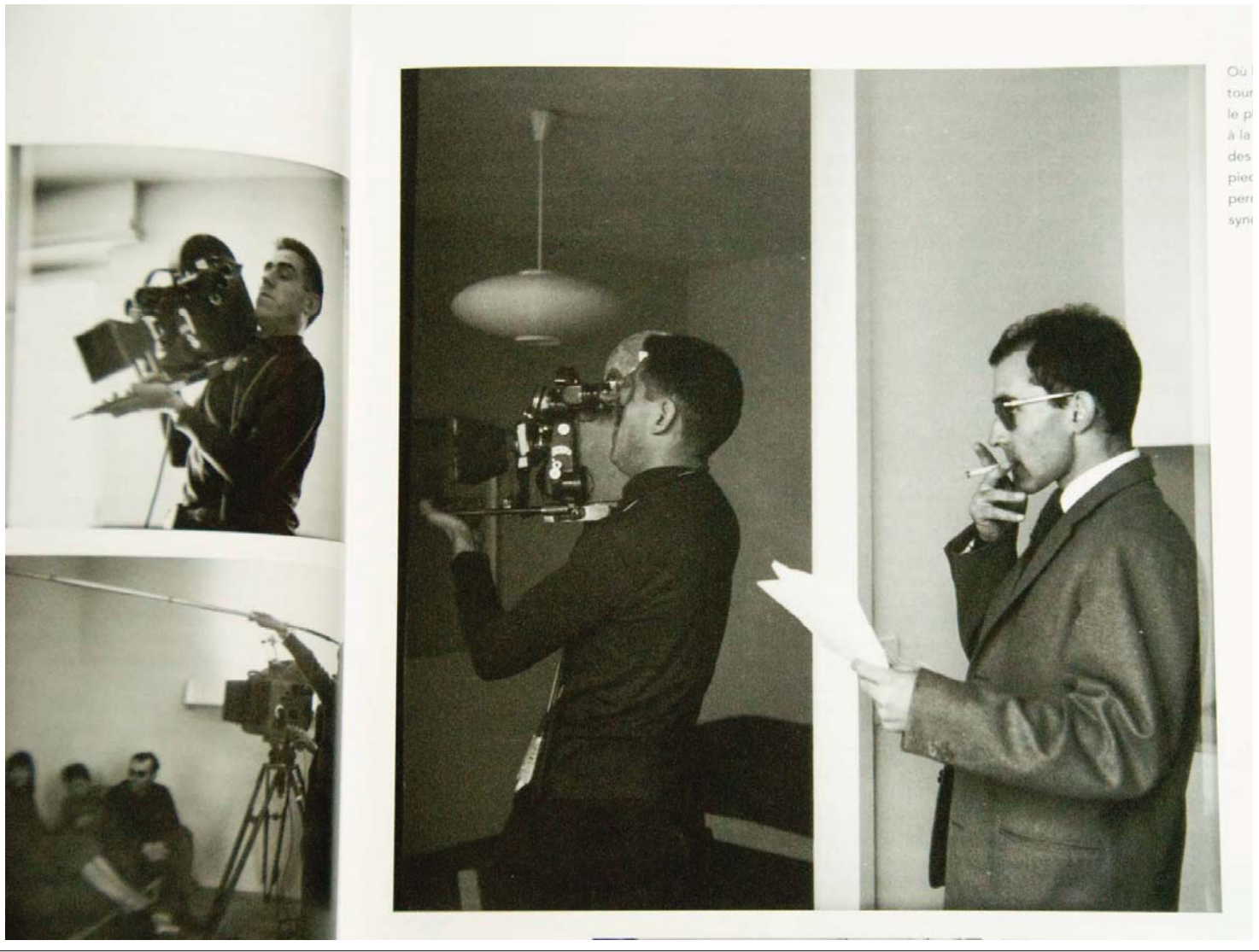


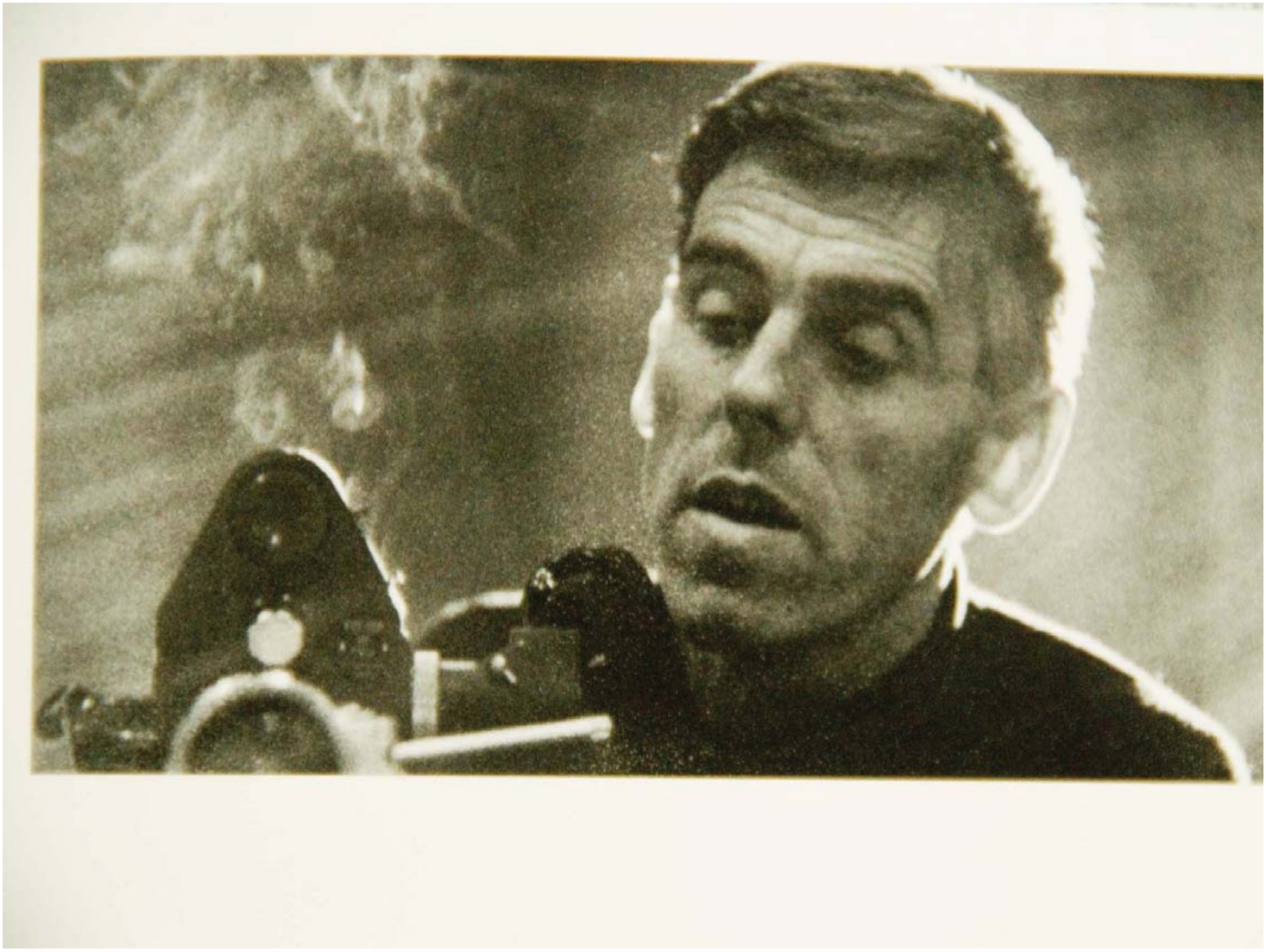


Feuille de mixage de Françoise Collin, dont c'est la première collaboration au montage avec Godard.
C'est Agnès Guillemot, dit-on, qui a présenté pour la première fois les feuilles

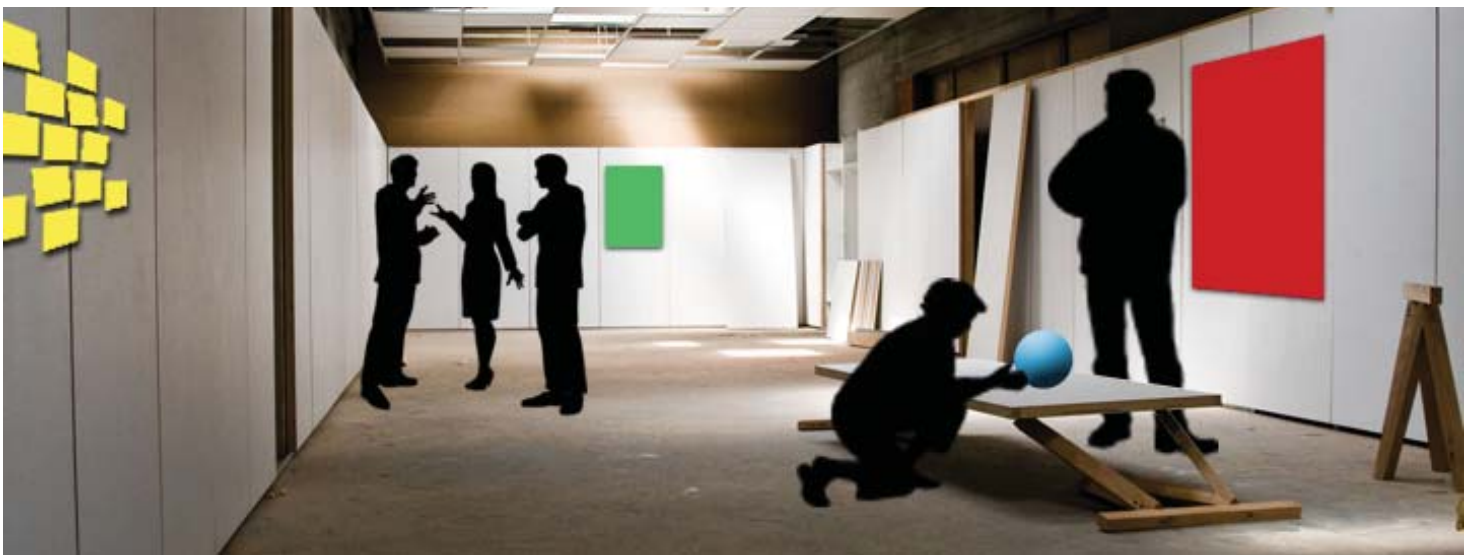


149
Vivian, devant un système de classification Saaco dans le bureau de Kubrick, en train de s'amuser.
Photographie de Kubrick.



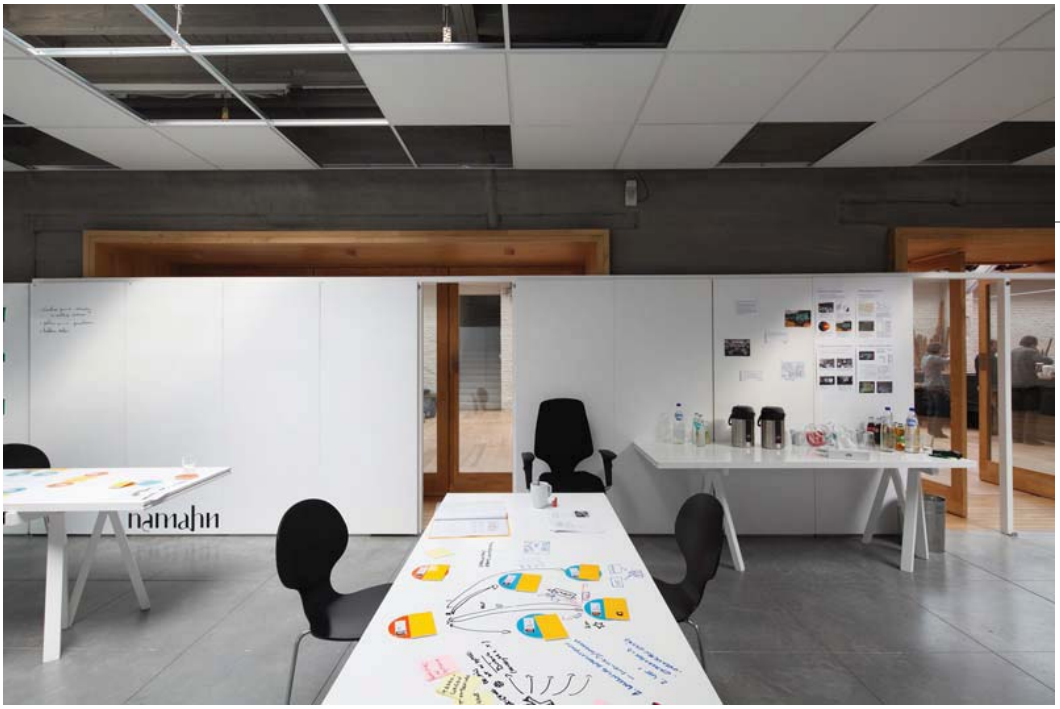


You are still the hero



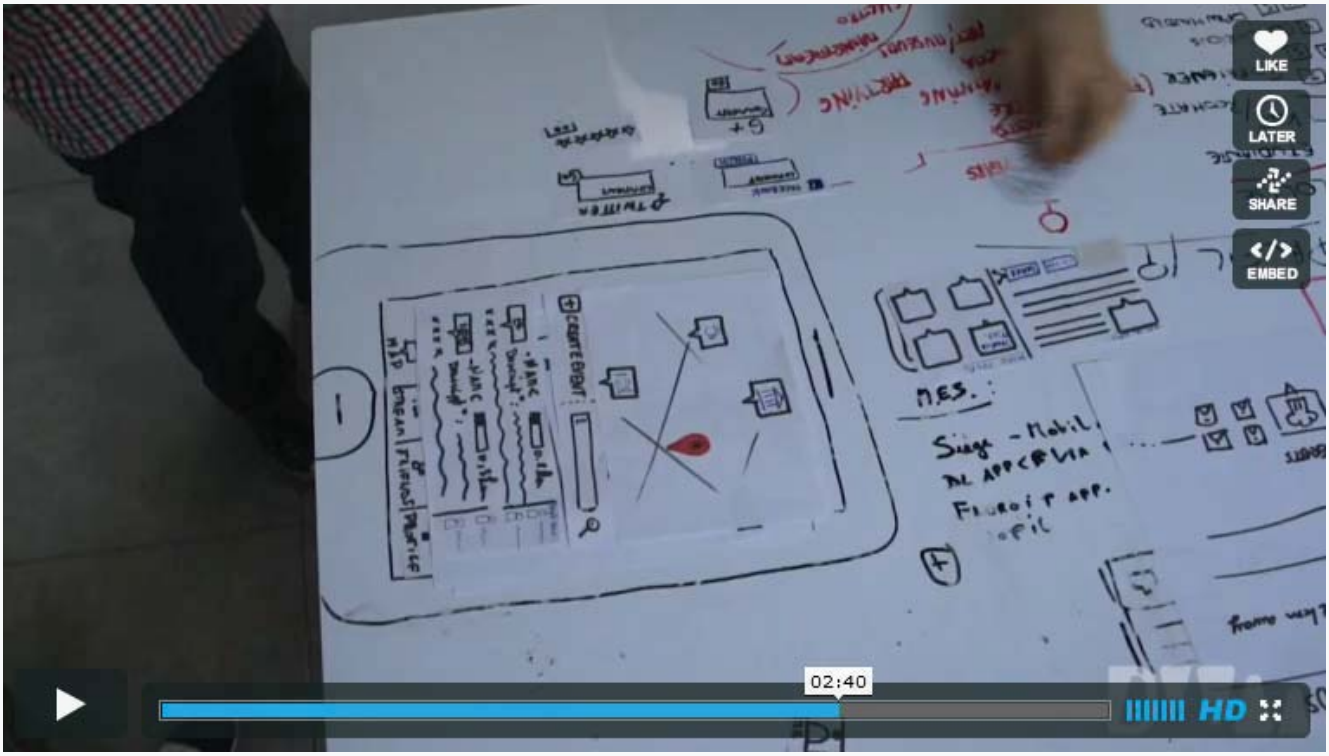
Offer ‘design studio’

- In dedicated space
- Day-long workshops, getting users and engineers in design mode, with design critique



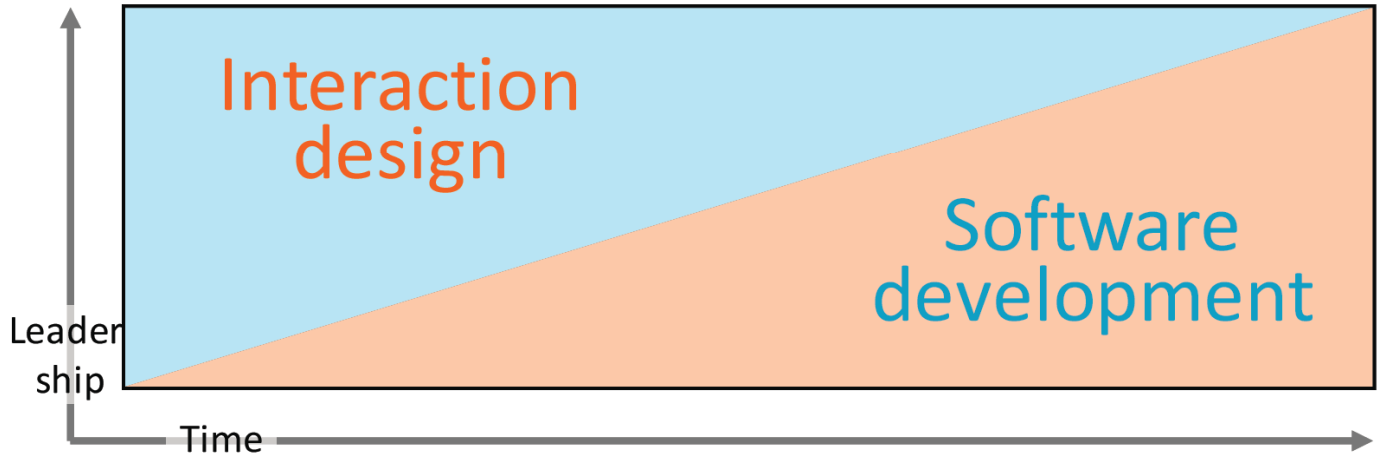
The design studio

The design studio


LIKE
LATER
SHARE
EMBED
02:40
HD

Client
Namahn
User
Sprint 1
Field study
Assessment
Task analyses
Framing
Understand
Ideation / Storytelling
Mental modeling
Conceptual design / Prototyping
Specification / Follow-up
Sprint 2
Field study / Assessment
Task analyses / Framing
Ideation
Storytelling
Mental modeling
Conceptual design
Prototyping
Explore
Specification / Follow-up
Sprint 3
Field study / Assessment
Task analyses / Framing
Ideation / Storytelling
Mental modeling
Conceptual design / Prototyping
Specification
Follow-up
Deliver

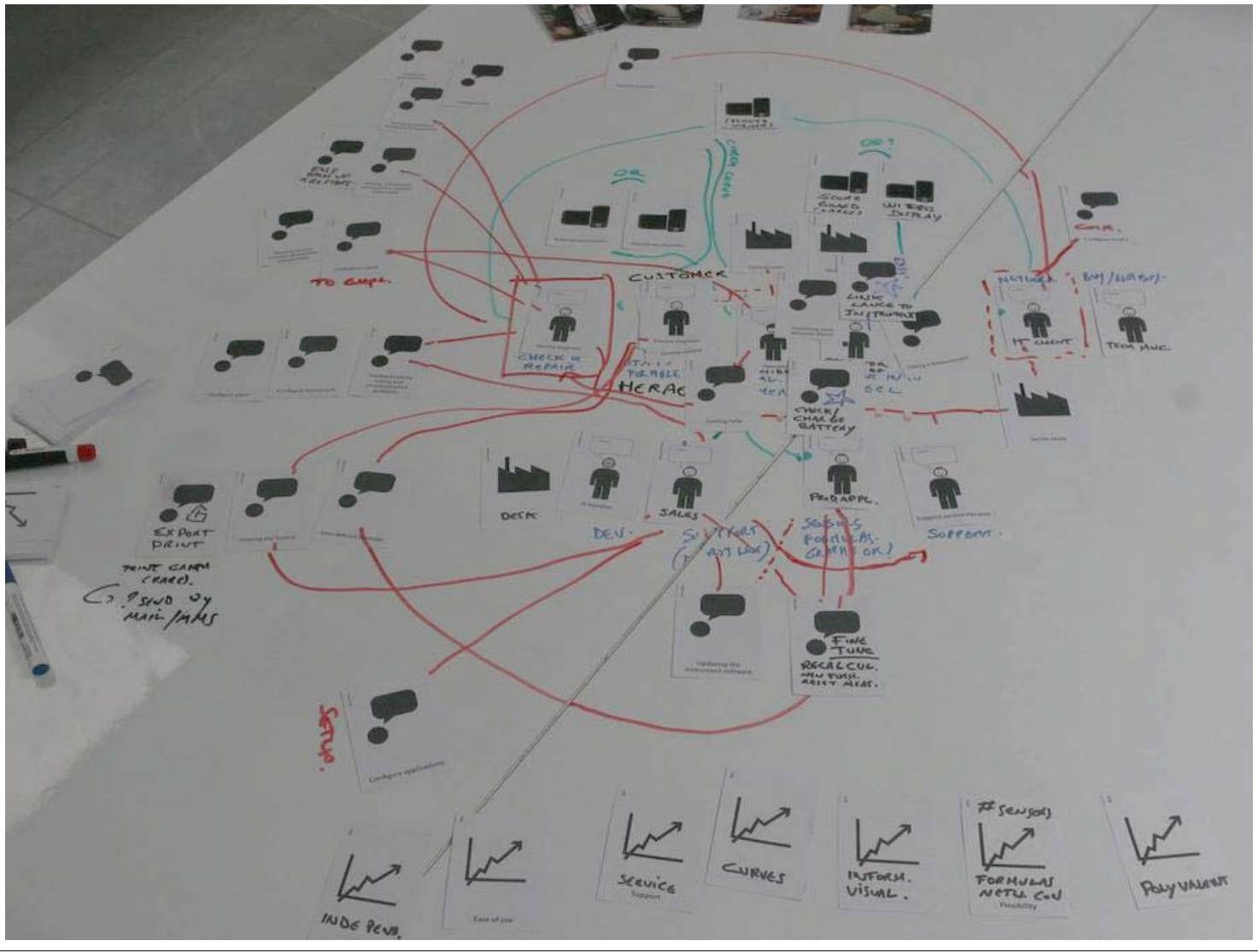
cooper



High-impact, low-effort visualisations

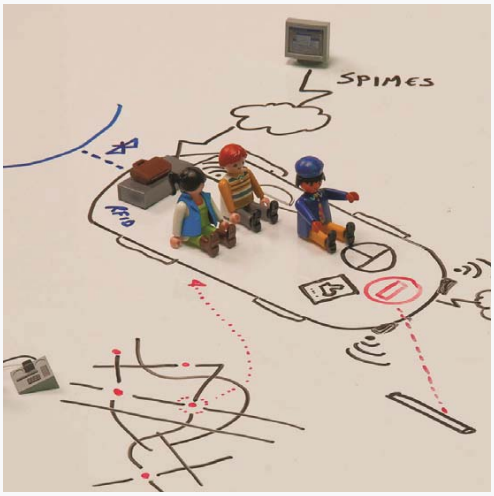
- Each deliverable must play a role in the design value chain
- Lightweight stories, sketches, cartoons, storyboards, videos
- Concise briefs, specifications, design rationale

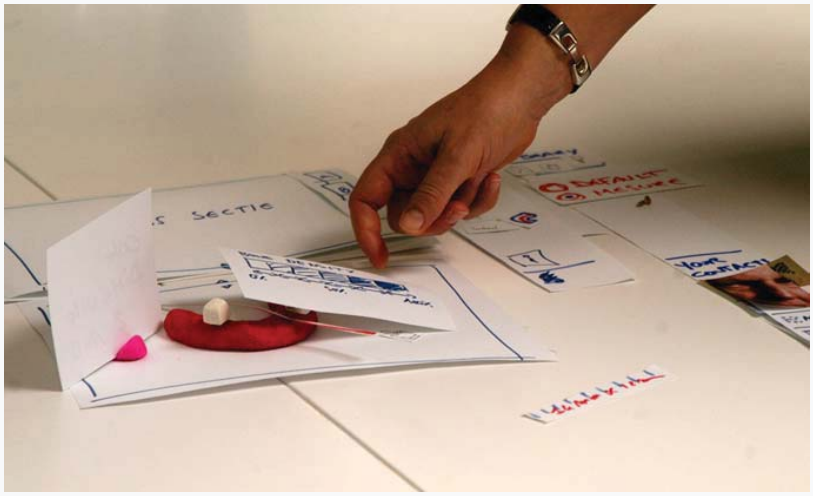
Framing - a tangible thinkering workshop

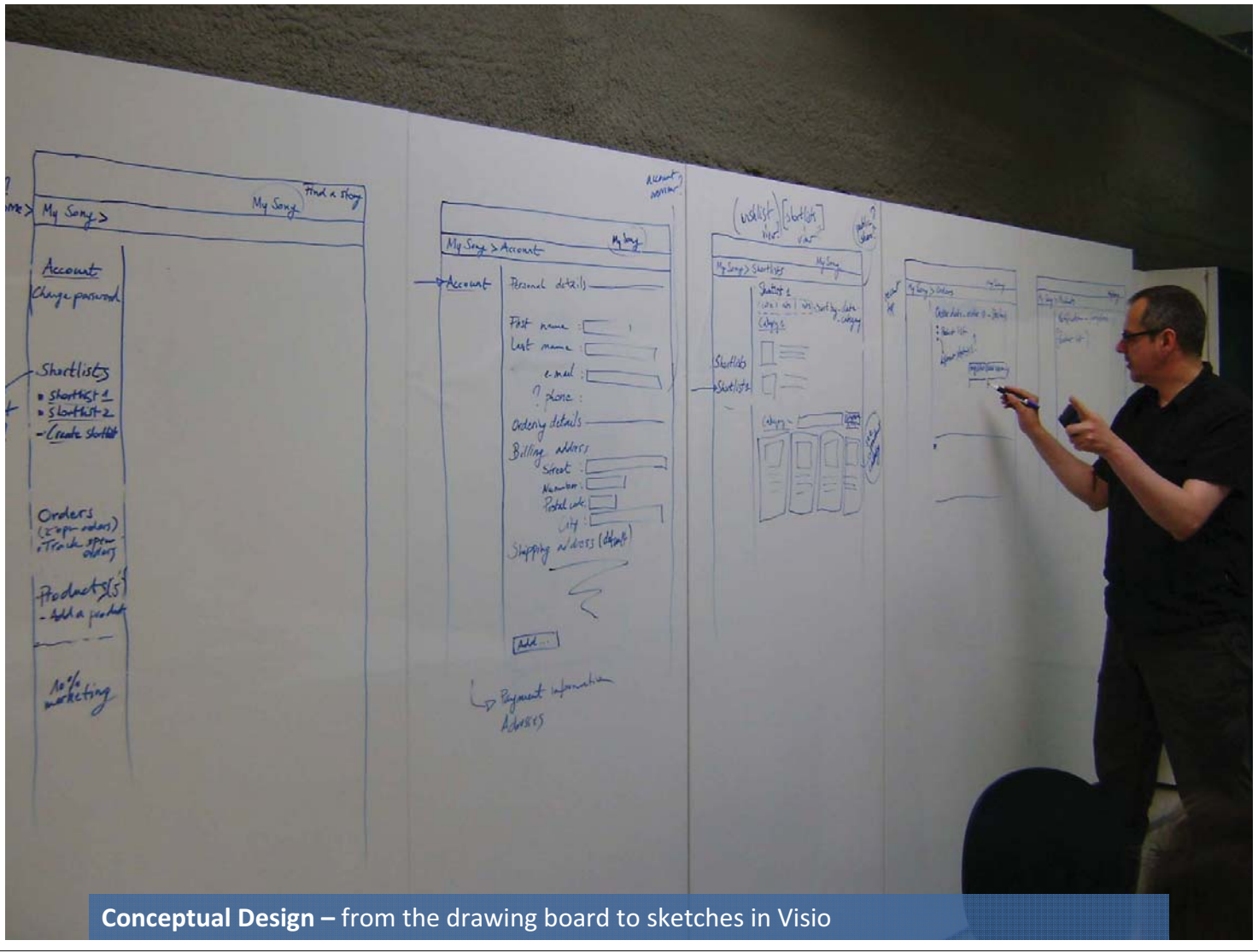


Presenting ideas - rapid prototyping

- Prototype material
  - Post-its, large paper (flip chart), thick markers
  - Lego, Playmobil, wood blocks, …
  - Modelling clay, pipe cleaners, …

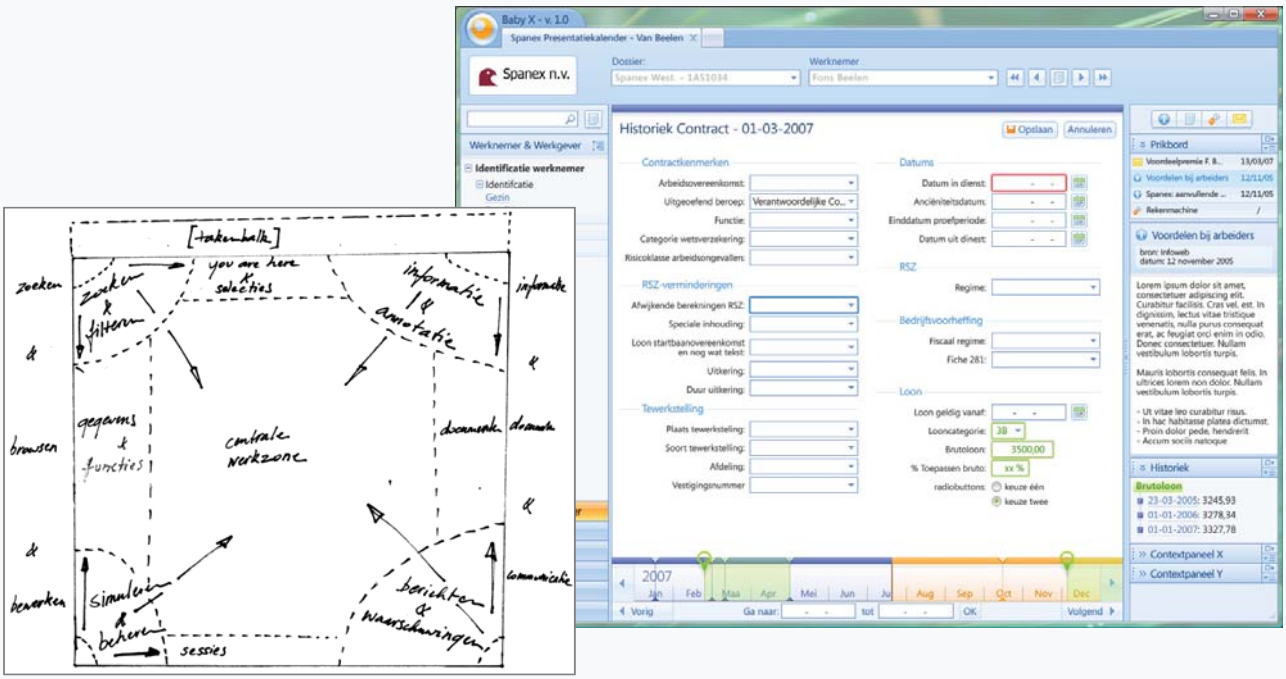




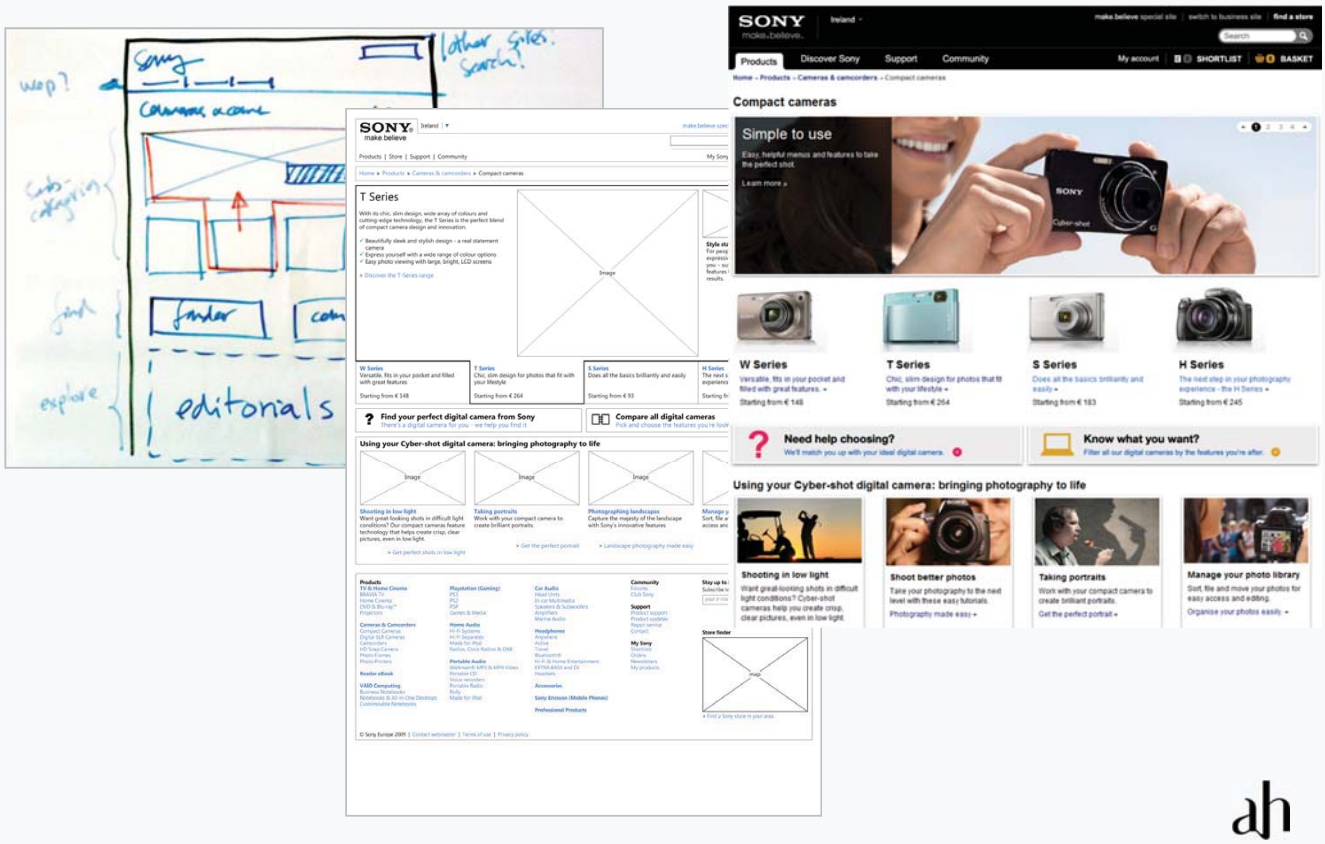


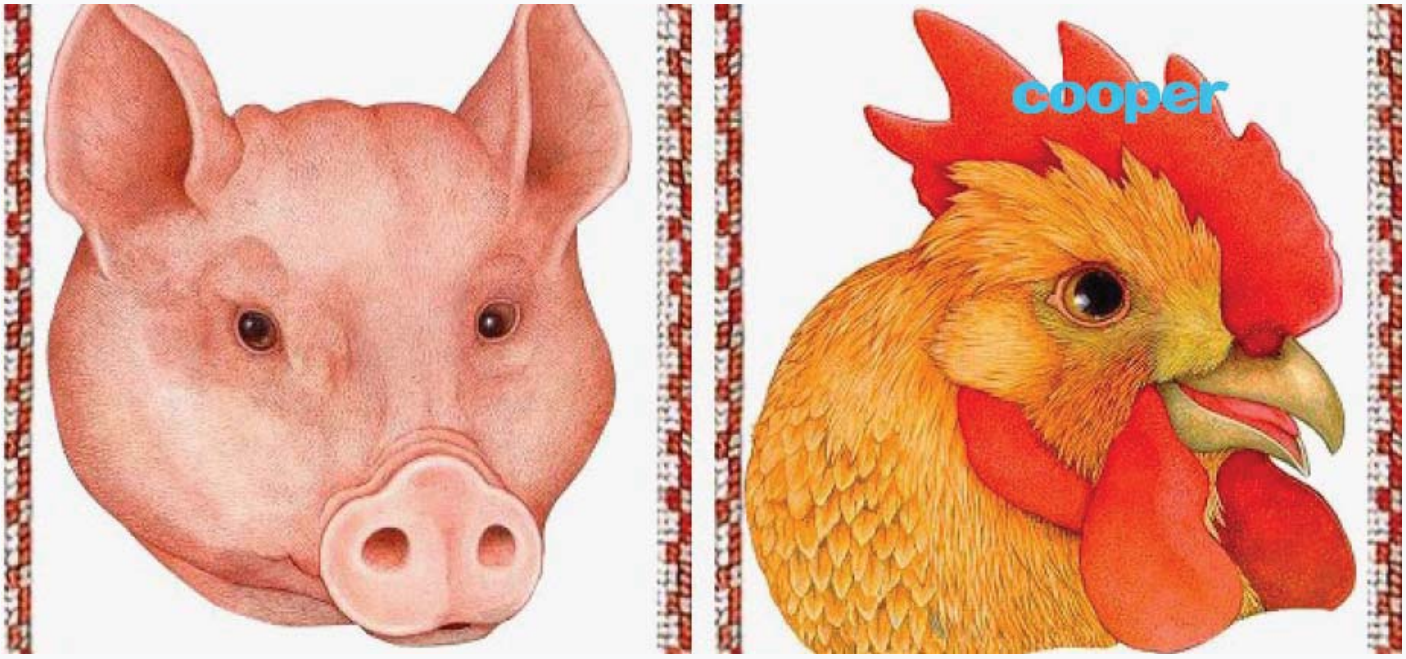
Conceptual Design – from the drawing board to sketches in Visio

SD Worx


Baby X - v. 1.0
Spanex Presentatiekalender - Van Beelen
Spanex n.v.
Dossier:
Werknemer
Werknemer & Werkgever
Identificatie werknemer
Identifcatie
Gezin
Historiek Contract - 01-03-2007
Opslaan
Annuleren
Contractkenmerken
Arbeidsovereenkomst:
Uitgeoefend beroep:
Verantwoordelijke Co...
Functie:
Categorie wetsverzekering:
Risicoklasse arbeidsongevallen:
RSZ-verminderingen
Afwijkende berekningen RSZ:
Speciale inhouding:
Loon startbaanovereenkomst en nog wat tekst:
Uitkering:
Duur uitkering:
Tewerkstelling
Plaats tewerkstelling:
Soort tewerkstelling:
Afdeling:
Vestigingsnummer
Datums
Datum in dienst:
Anciënteitsdatum:
Einddatum proefperiode:
Datum uit dienst:
RSZ
Regime:
Bedrijfsvoorheffing
Fiscaal regime:
Fiche 281:
Loon
Loon geldig vanaf:
Looncategorie:
Bruteloon:
3500,00
% Toepassen bruto:
radiobuttons:
keuze één
keuze twee
Prikbord
Voordelen bij arbeiders
Historiek
Brutoloon
23-03-2005: 3245,93
01-01-2006: 3278,34
01-01-2007: 3327,78
Contextpaneel X
Contextpaneel Y
2007
Vorig
Ga naar:
tot
OK
Volgend
[taakenbalk]
you are here & selecties
zoeken & filteren
informatie & annotatie
gegevens & functies
centrale werkzone
documenten
simuleren & beheren
berichten & waarschuwingen
communicatie
sessies

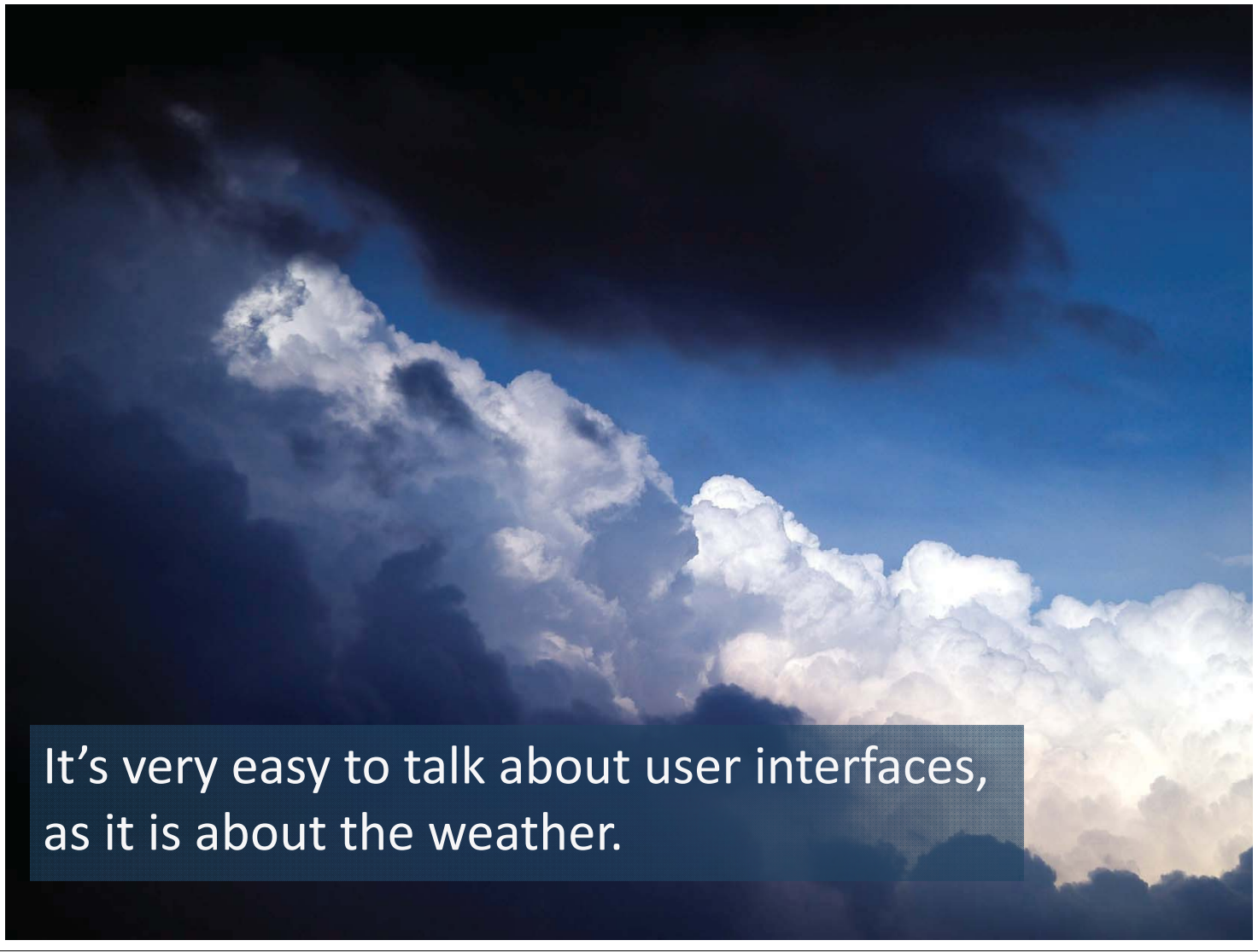
Sony


SONY
make.believe
Ireland
Products
Discover Sony
Support
Community
My account
SHORTLIST
BASKET
Compact cameras
Simple to use
Easy, helpful menus and features to take the perfect shot.
Learn more
W Series
Versatile, fits in your pocket and filled with great features.
Starting from € 148
T Series
Chic, slim design for photos that fit with your lifestyle
Starting from € 264
S Series
Does all the basics brilliantly and easily
Starting from € 183
H Series
The next step in your photography experience - the H Series
Starting from € 245
Need help choosing?
We'll match you up with your ideal digital camera.
Know what you want?
Filter all our digital cameras by the features you're after.
Using your Cyber-shot digital camera: bringing photography to life
Shooting in low light
Want great-looking shots in difficult light conditions? Cyber-shot cameras help you create crisp, clear pictures, even in low light.
Shoot better photos
Take your photography to the next level with these easy tutorials.
Photography made easy
Taking portraits
Work with your compact camera to create brilliant portraits.
Get the perfect portrait
Manage your photo library
Sort, file and move your photos for easy access and editing.
Organise your photos easily
T Series
Find your perfect digital camera from Sony
Compare all digital cameras
Using your Cyber-shot digital camera: bringing photography to life
finder
editorials
explore



What the interaction designer should tell the software engineer

What the software engineer should tell the interaction designer



“Do or do not; there is no try."

Yoda’s wisdom

“On s’engage et puis on voit"

Napoléon Bonaparte