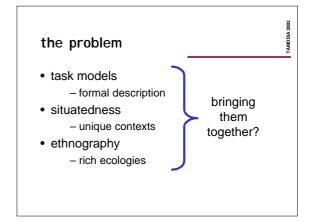
managing the ecology of interaction
(extending task analysis)
extract from invited talk at Tamodia 2002

Alan Dix
Lancaster University
www.hcibook.com/alan/papers/Tamodia2002



phenomena

- · collaboration
- information
- triggers
- artefacts
- placeholders
- · continuity & duration
- · intentional cycle

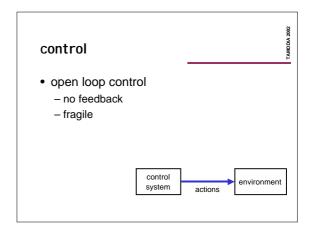
## collaboration

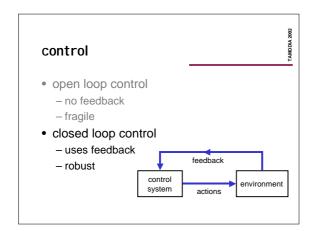
- already in several notations
  - label subtasks by person responsible
  - TA for individuals and groups
  - e.g. CTT
- add artefacts too ?

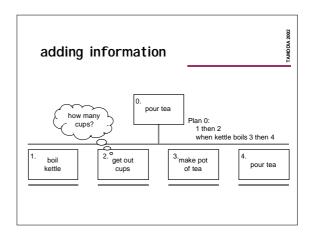
information

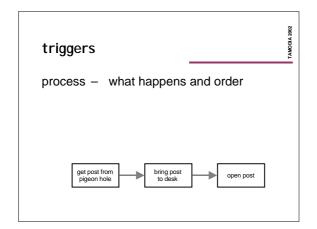
pre-planned cognitive model
 goal → action

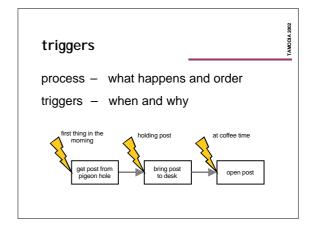
situated action
 environment → action











## ethnographic studies as shared representation as focus of activity act as triggers, information sources, etc. | STATE | STAT

Placeholders

• knowing where you are in a process

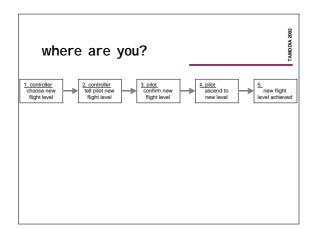
- like a program counter

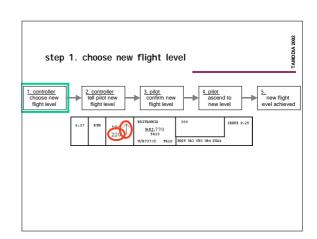
• coding:

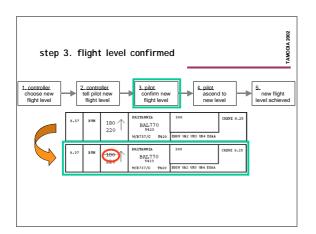
- memory

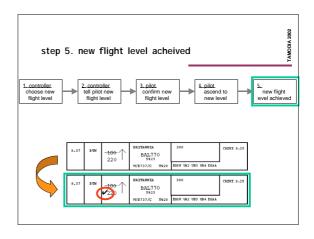
- explicit (e.g. to do list)

- in artefacts

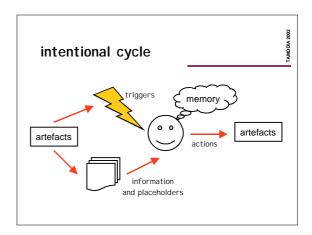








## continuity & duration system models – event centric status–event analysis continuous time (status) and discrete (events) many generic issues and phenomena task models: in the annotations and descriptions concurrency – true or interleaved?



incidental interaction • traditional interaction – purposeful - user as controller incidental interaction - system as slave incidental interaction - user acts for one purpose - system observes and acts incidental interaction ? task analysis • traditional interaction - purposeful - user as controller, system as slave • model main purposeful activity · incidental interaction - use to design sensors - system observes and acts, not user's purpose · examples: • model activity to be aided/enhanced - car lights - auto-flush toilet - use to design actuators - intelligent homes final thoughts ... · ecologically valid task modelling - incorporate rich phenomena winding up - but also understand limits • role? - normative or normal? - definitive process or descriptive grammar - main task or subsidiary task