

Cross-system log file analysis for hypothesis testing

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Cross-system log file analysis for hypothesis testing

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A large outdoor sculpture in a park setting. It features several yellow bowling pins with red rings around their necks, arranged in a cluster. In the foreground, a dark grey bowling ball is partially visible, showing its finger holes. The background consists of tall, leafless trees and a clear sky, suggesting an autumn or winter setting. The overall scene is brightly lit, likely by natural light.

**Do we meet
our goals?**

PROVIDING FREEDOM OF CHOICE AND PERSONALISED LEARNING PATHS

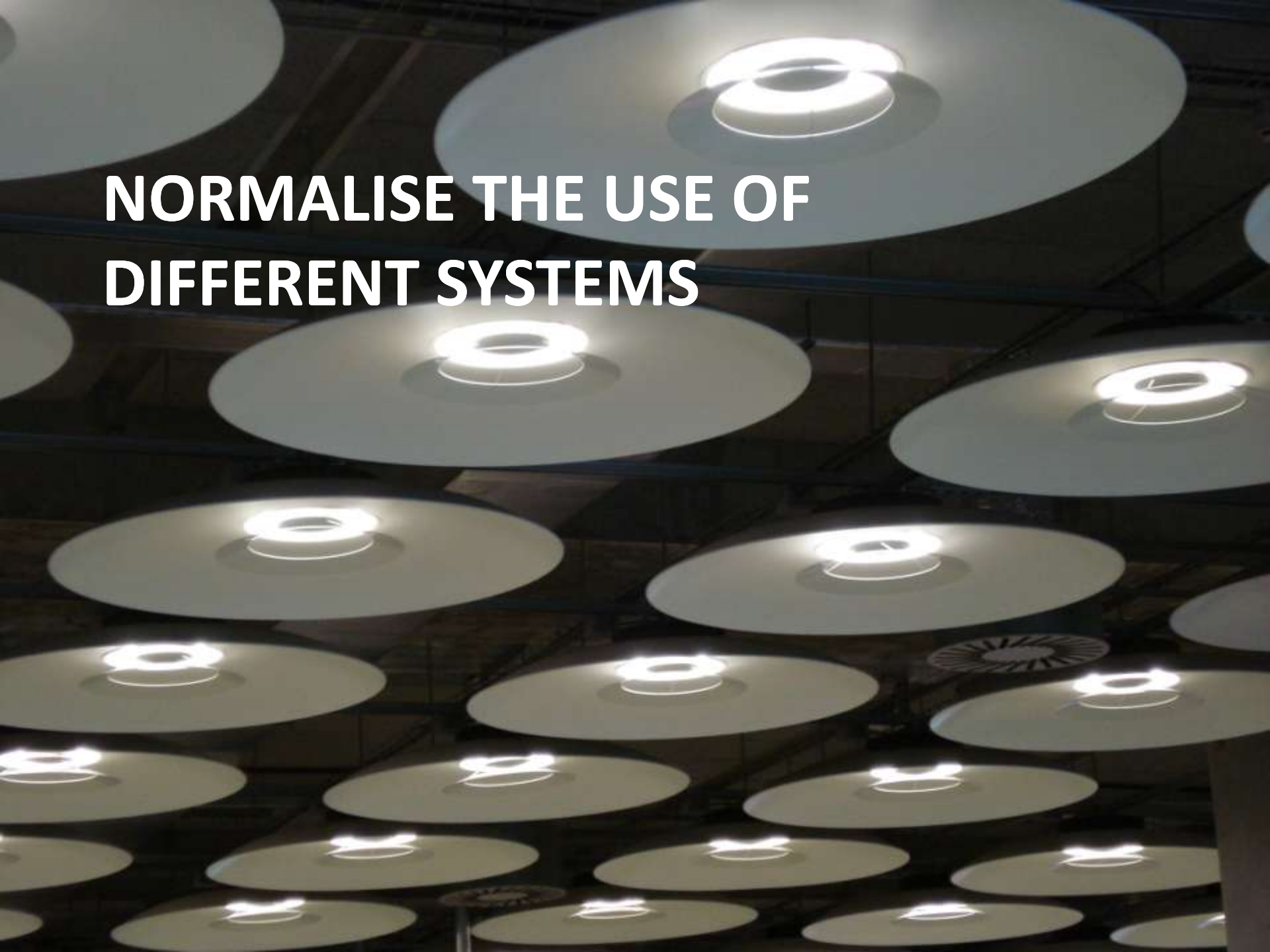




IS LEARNING DIFFERENT?

... OR IS IT “JUST” A DIFFERENT SYSTEM?





**NORMALISE THE USE OF
DIFFERENT SYSTEMS**

ANALYSE THE LEARNERS' ACTIONS



... AND THE TOOLS THEY USE

Learner Actions

- Accesses to the systems
- Active users and Drop-outs
- Independent user sessions
- Tool usage
- Frequency of usage per user
- Session structure
- Changes in session structure and frequency over time

System Tools

TENCompetence PCM

- Registration
- Action
- Assessment
- Competencedevelopmentplan
- Competenceprofile
- Competences
- Item
- Resource
- User
- ?

Moodle

- Course + enrol
- ?
- Assignment
- Course
- n/a
- n/a
- ?
- Resource
- User
- Forum

Map hypotheses to actions and tools

Effectiveness

- Session structure
- User activity

Quality

- Active users & Drop-outs
- Frequency of usage per user



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