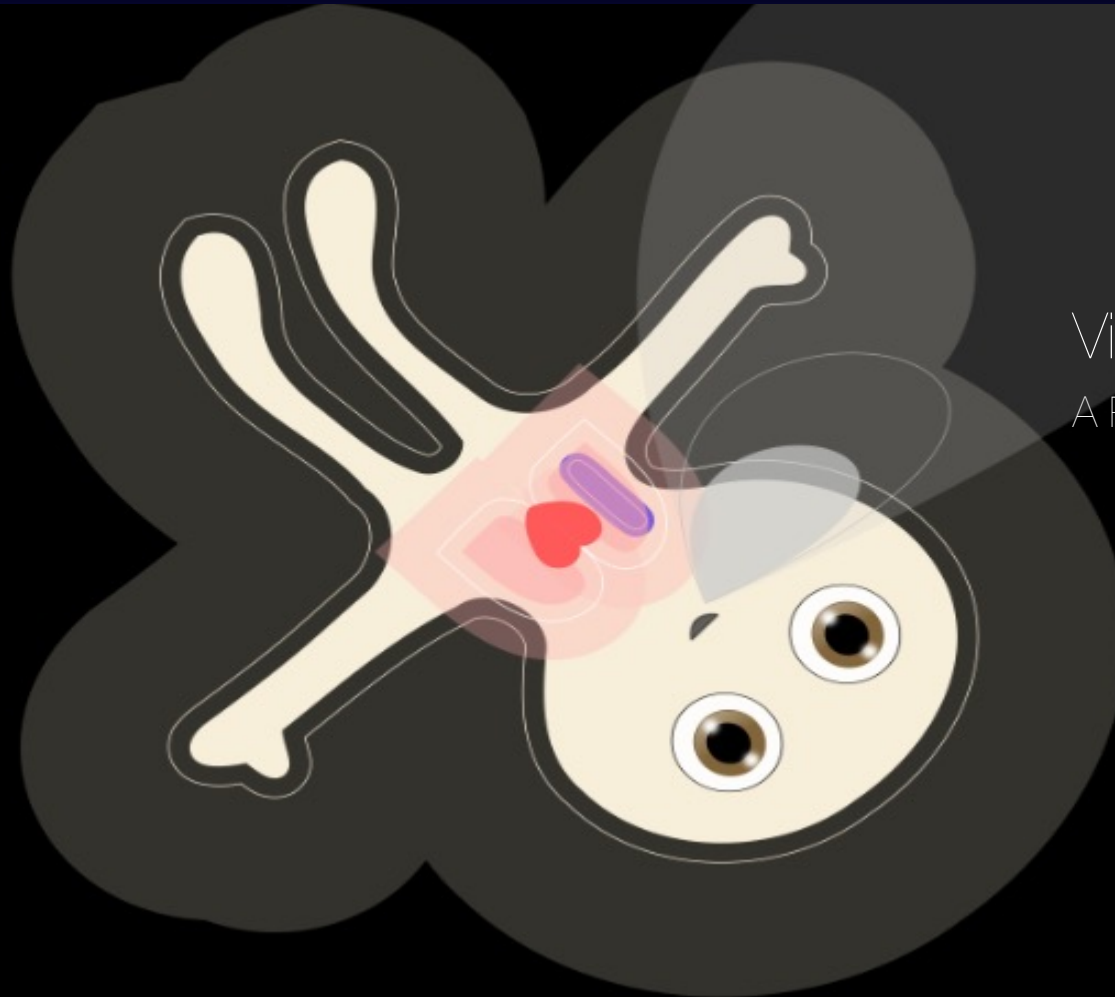


Kurzpräsentation Philips

20.09.2017 / 1130h

zuhanden Herr Dr. Bauer und Herrn Dr. Nürnberg, Philips Schweiz



Visual Patient



A Revolution in Patient Monitoring

- 1) Begrüssung (3')
- 2) Präsentation: Problem, Lösungsansatz, erster Einblick in den VP (8')
- 3) Kurzes Schulungsvideo (3')
- 4) Test, Szene im OP, zwei Szenarios (5')
- 5) Test IPS (1')
- 6) Kurze Vorstellung der Studien (10')
- 7) Fragen, Diskussion (30')

Why the Technology is needed

Visual Patient 
A Revolution in Patient Monitoring.



Why the Technology is needed

Visual Patient 
A Revolution in Patient Monitoring.

Too much data,
not enough
organized
information

Situation
awareness
incomplete

Logical next step
in Patient
Monitoring



A revolutionary, easy to learn, new technology that will improve patient safety by making Patient Monitoring much more *intuitive*.





It's like looking through the Primary Flight Display to monitor your flight situation – without struggling to piece together a mental picture solely from raw instrument data on the panel.



Classic cockpit instrument panel. Analog instruments.



"The human brain needs to abstract raw data to information and further integrate the information into structured information, which forms the basis of situational awareness".

Beispiel Verkehrsunfall

Rapperswil-Jona/SG. Am Samstag (06.08.2016), um 18:10 Uhr, hat ein 49-jähriger Autofahrer an der Rütistrasse ein entgegenkommendes Auto übersehen. Der Mann wollte nach links abbiegen, wobei es zu einer Kollision kam. Die 26-jährige Beifahrerin des entgegenkommenden Autos verletzte sich dabei leicht. - Kapo SG/PN



Why the Technology is needed

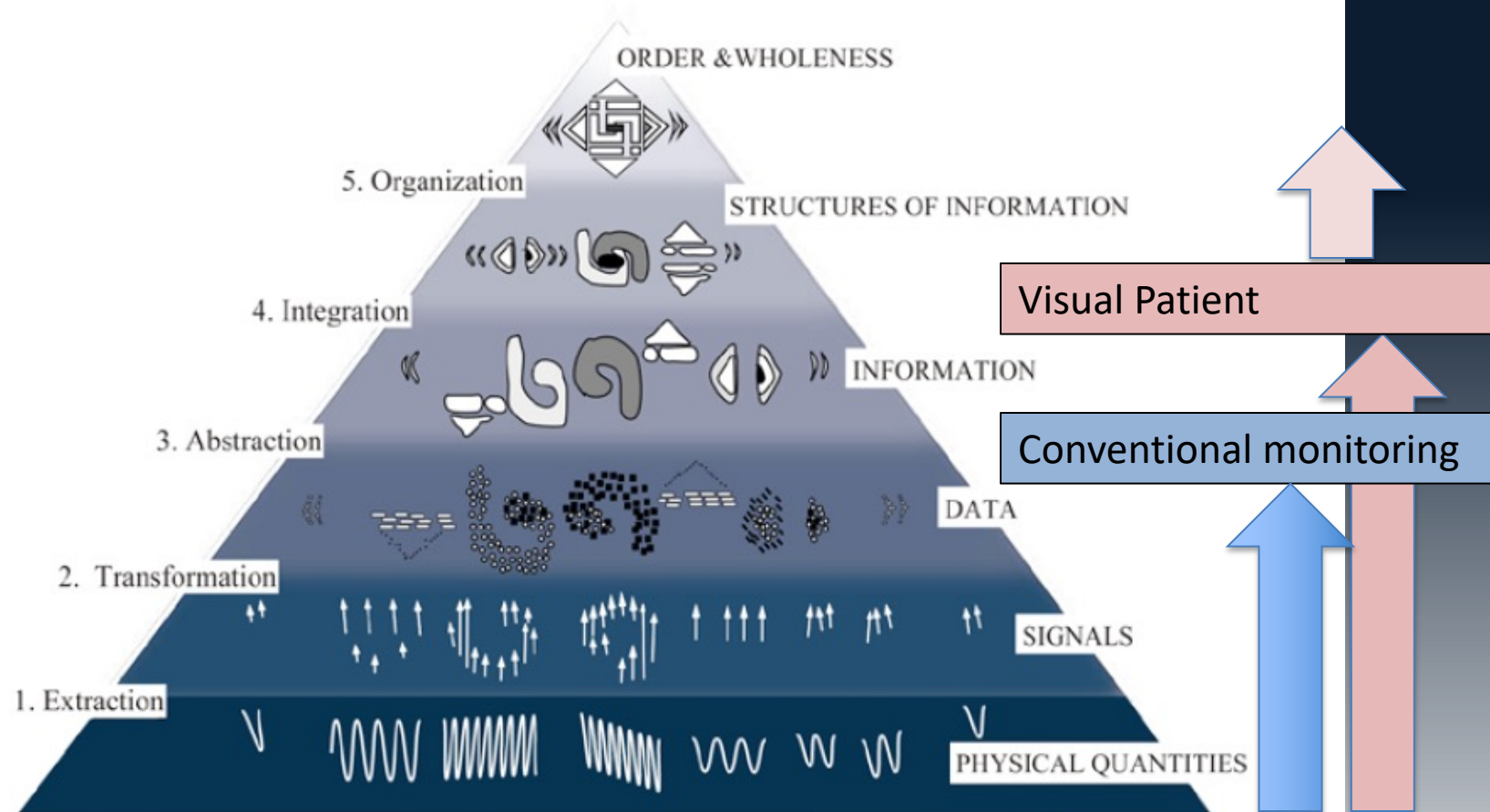
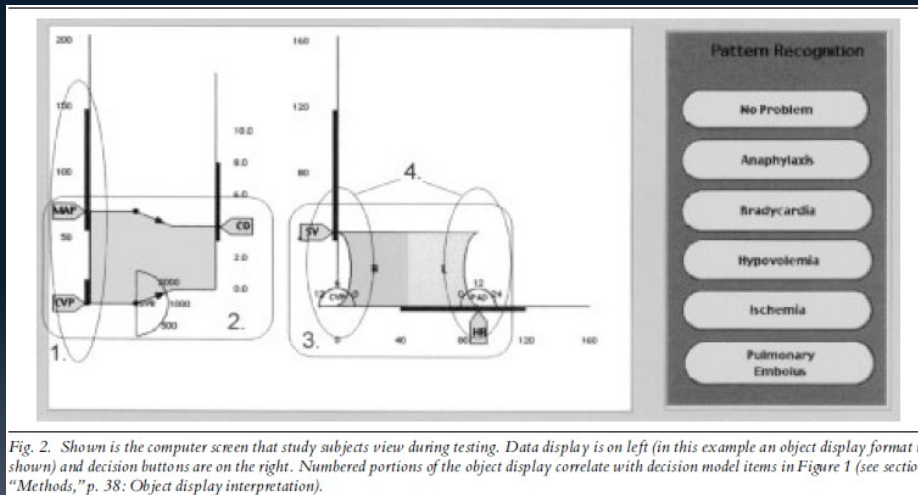


Figure 1-1. A hierarchical arrangement of the six levels involved in representation and presentation of information.

How should that look like?

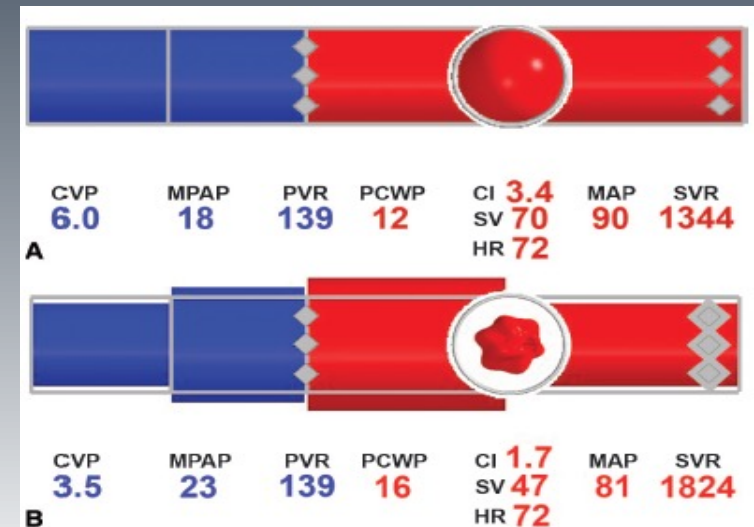


A GRAPHICAL OBJECT DISPLAY IMPROVES ANESTHESIOLOGISTS' PERFORMANCE ON A SIMULATED DIAGNOSTIC TASK

George T. Blike et al.
Journal of Clinical Monitoring and Computing
15: 37-44, 1999

A Simulation-Based Evaluation of a Graphic Cardiovascular Display

Albert RW, Agutter JA, et al.
Anesth Analg 2007;105:1303–11



The Right Picture Is Worth a Thousand Numbers: Data Displays in Anesthesia

Frank A. Drews and Dwayne R. Westenskow, University of Utah, Salt Lake City, Utah

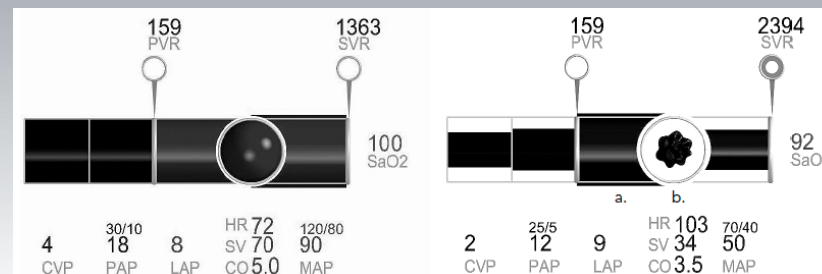
HUMAN FACTORS, Vol. 48, No. 1, Spring 2006, pp. 59–71

Objective: To review the literature on data displays in anesthesia identifying issues and developing design recommendations.

Background: Unexpected incidents are common in critical care medicine. Adverse outcomes are frequently the catastrophic endpoints of an “evolving” chain of subtle incidents. One strategy to reduce the likelihood of an adverse patient outcome during anesthesia is to improve the anesthesiologist’s ability to detect, diagnose, and treat critical incidents.

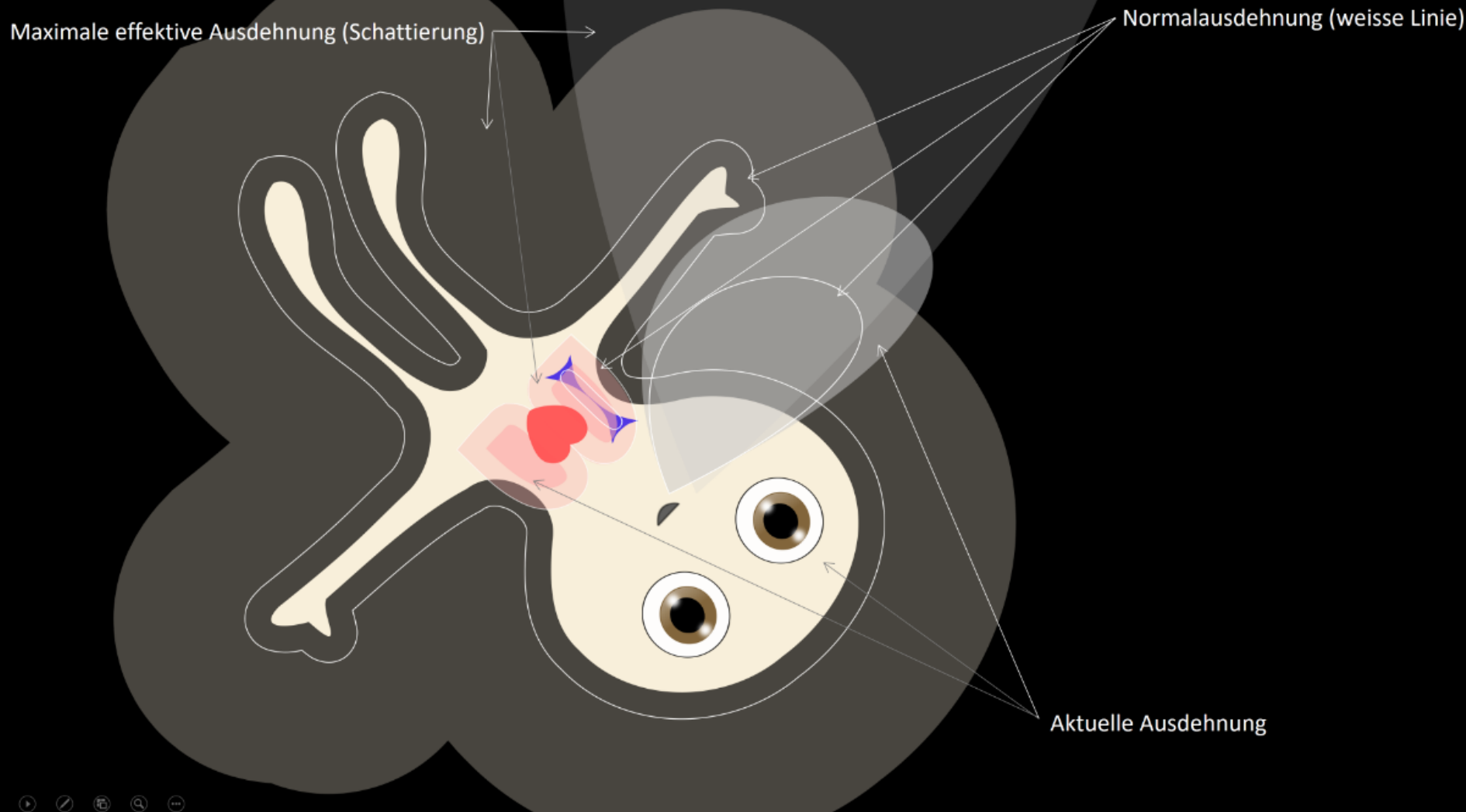
Method: A literature review and analysis of data displays.

Results: Current numerical and waveform displays do not support anesthesiologists optimally. An alternative is graphical displays that functionally integrate variables into objects.



How should that look like?

-> *INTUITIVE*



Classic and new Technology



2002

Revolutionized
aviation industry in
10 years

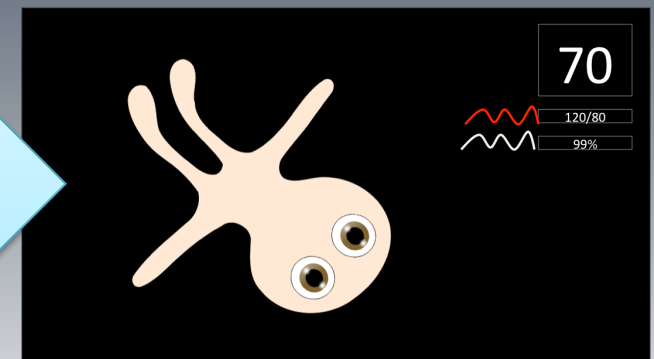


2012



2017

Will revolutionize
Patient Monitoring



20??

