

”State of the Union”

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CVMT Seminar 2004

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Højgaarden, Slette Strand

”State of the Union”

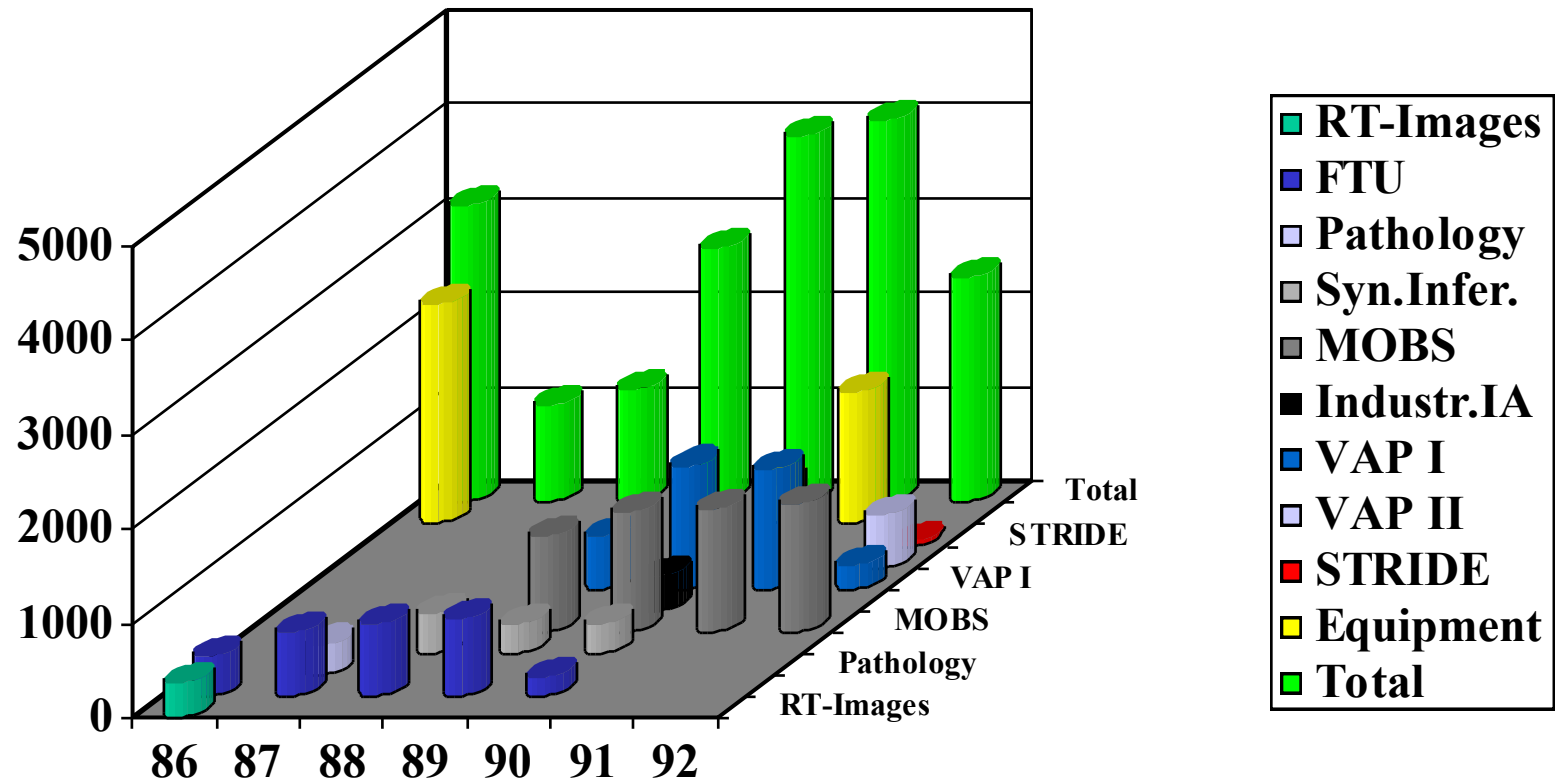
- Where are we coming from?
 - History: 86-92, 97-06, ---
- Where are we?
 - Who? Why?
 - How are we doing?
- Where are we heading?
 - Goals (Dreams and Commitments)
 - Strategy, Action Plan

Where are we coming from? (1)

- 1983-84 LBA/LIA Established (EG, KWF, HN)
 - Part of Medico-Group, Part of I-8 (Inst. Electronic Systems)
 - Mainly PRIP: Pattern Recognition & Image Processing
 - 1984 EG 3-year grant: R-T Images An., Gram. Inference
 - CAACG, Concerted Action on Automated Cyto-Genetics
- 1986 MIBA Established (I-8 = 4 Departments)
 - 1986 GOP system, FTU project
 - 1989 MOBS (STVF) & VAP (EU) projects, EG prof.
 - 1990 LBA/LIA moving to FRB
 - 1991 VKR award (EG), 1 mill. DKK used for equipment
 - Mobile Robot, SGI computers
 - 1992 ECUS (VAP-US Collaboration), VAP II (EU)
- 1992 Research Evaluation of MIBA (86-92), See Report

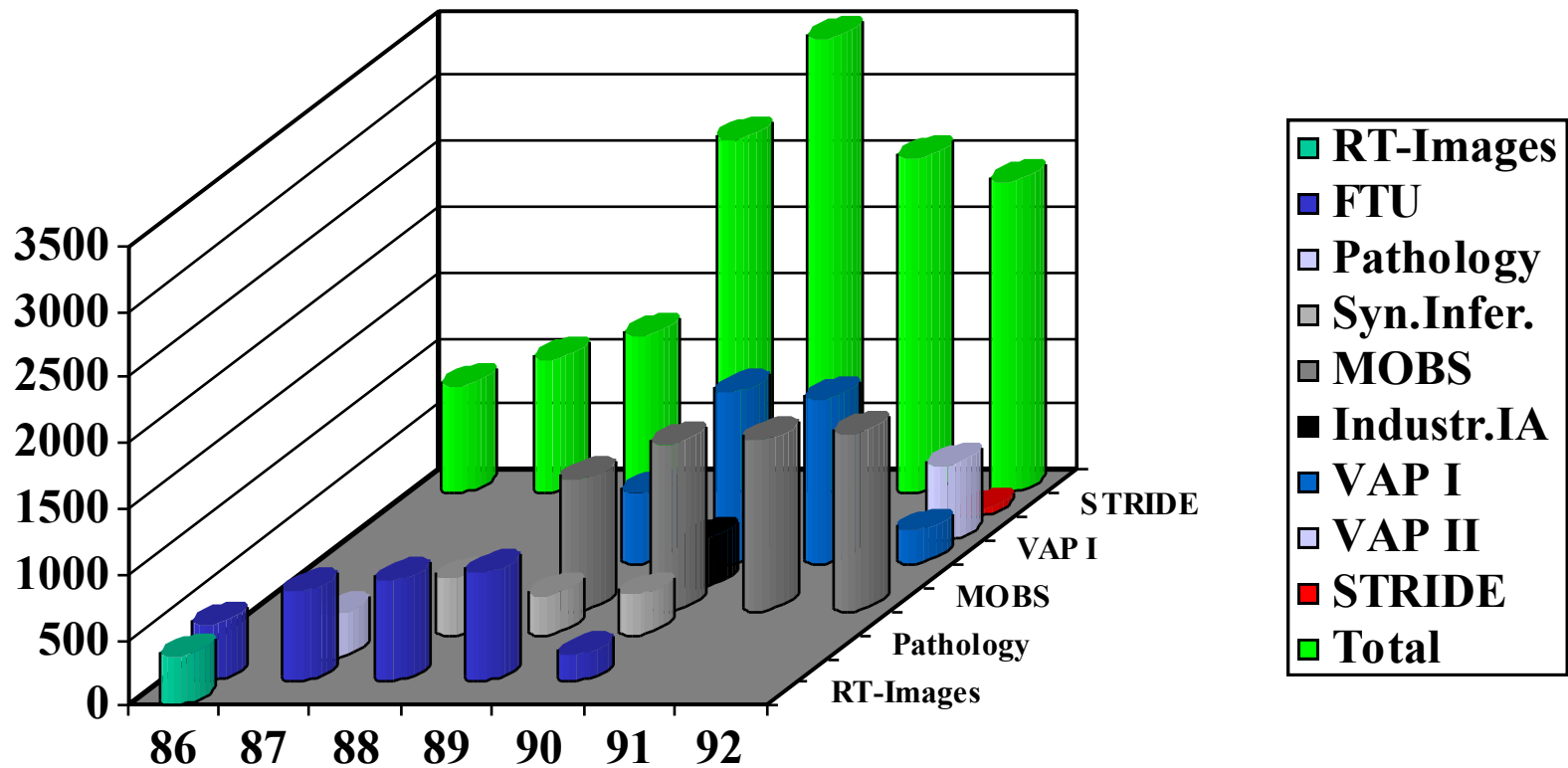
LBA/LIA, 1986 - 1992

External Funding (Incl. Equipment Grants)



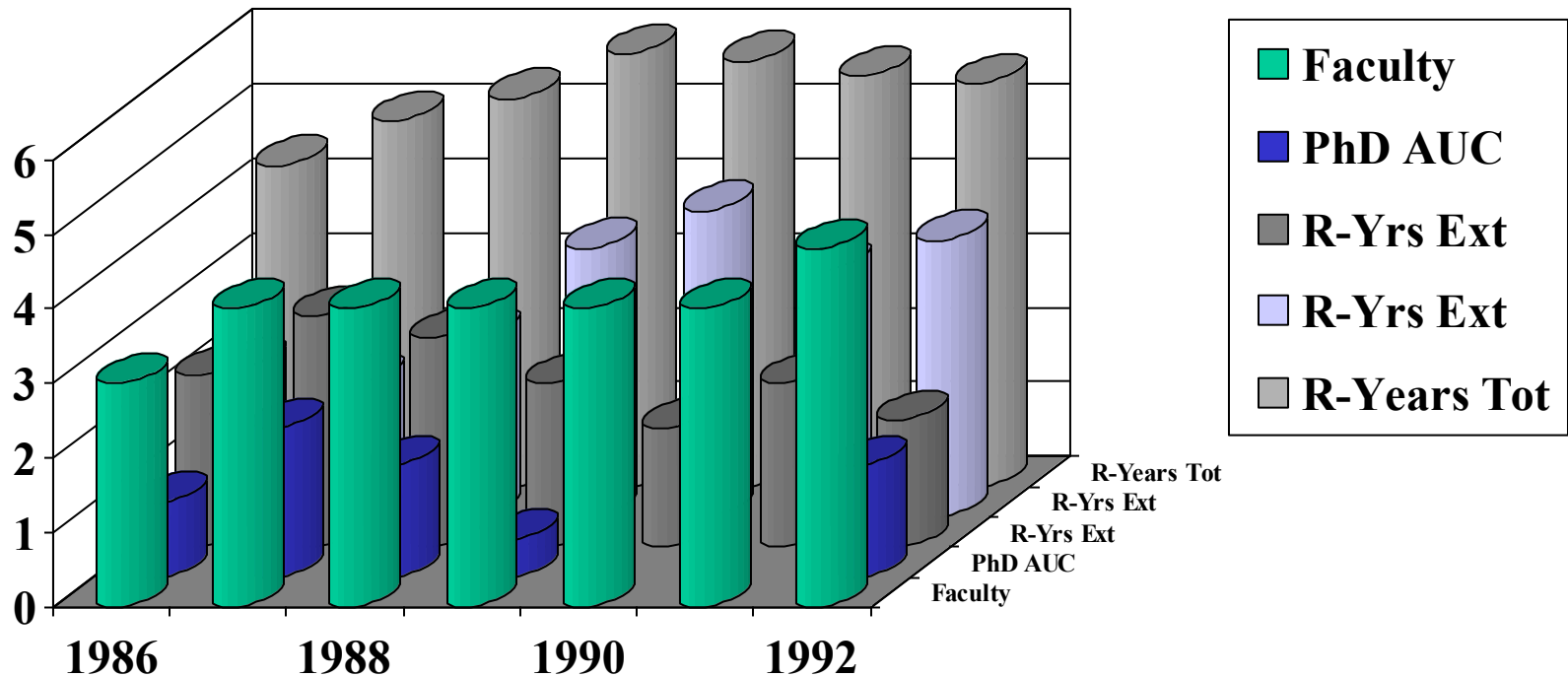
LBA/LIA, 1986 - 1992

External Funding (Projects)



LBA/LIA, 1986 - 1992

Personnel

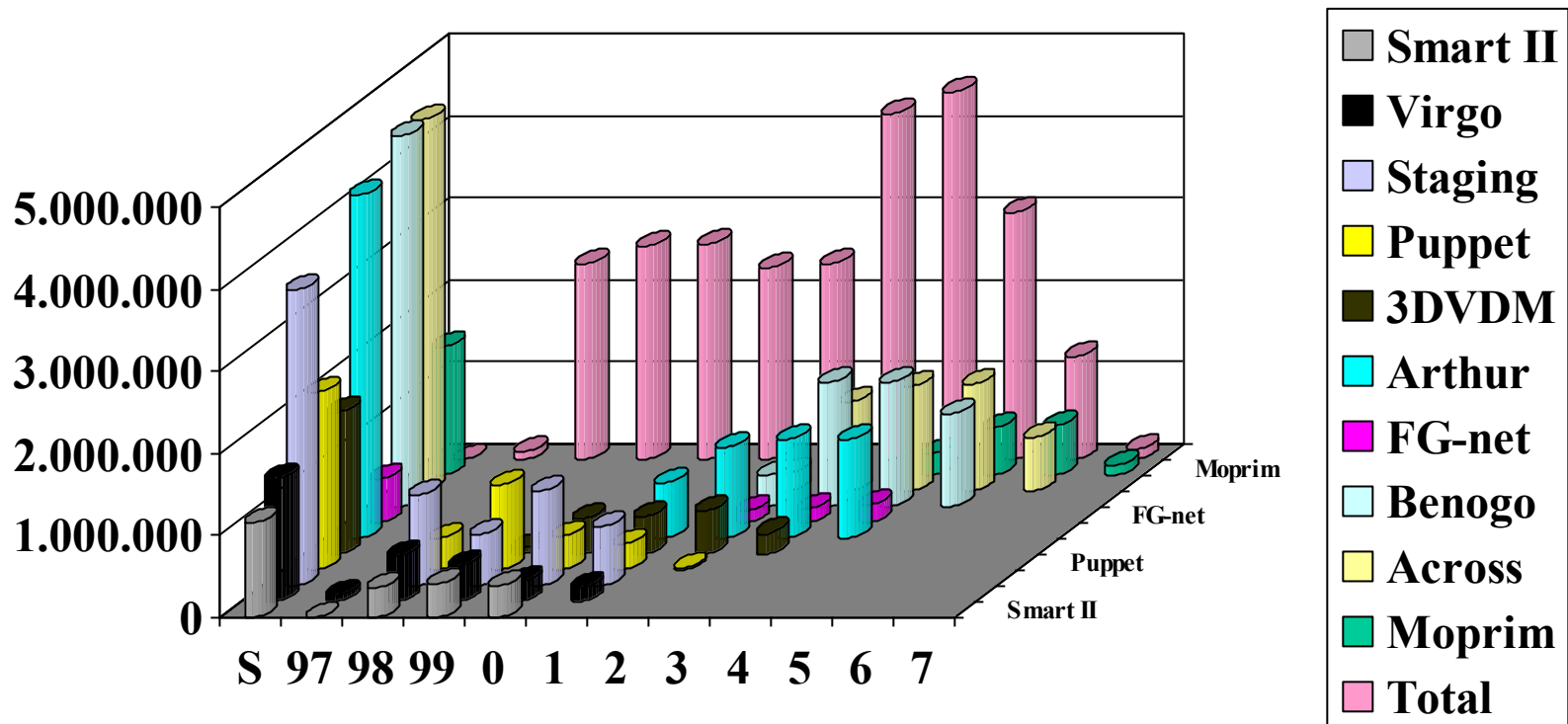


Where are we coming from? (2)

- Computer Vision, Active Vision, Navigation, Control of perception
 - 1992 ECUS & VAP II, NORVIC
 - 1993 SMART, NORBIT I
 - 1994 ECVnet, ECIS (VAP & Israel)
 - 1995 RETINA, NORBIT II, OPTIMAL, PowerOnyx
- Outdoor Vision, Colour
 - 1996 VIRGO, MC-Aalborg
 - 1997 SMART II, I3-net, Deskside Onyx
- Virtual Reality, Autonomous Agents, MultiMedia
 - 1998 Puppet, Staging, InterMedia
 - 1999 3DVDM, VR-Center Nord, CVMT->NOVI
 - 2000 Interaction, IMA/VRCN -> VRML, CVMT solo
- Augmented reality
 - 2001 FG-Net, ARTHUR
 - 2002 Outdoor Vis., BENOGO, ACROSS
 - 2004 MoPrim
 - 2005 ?

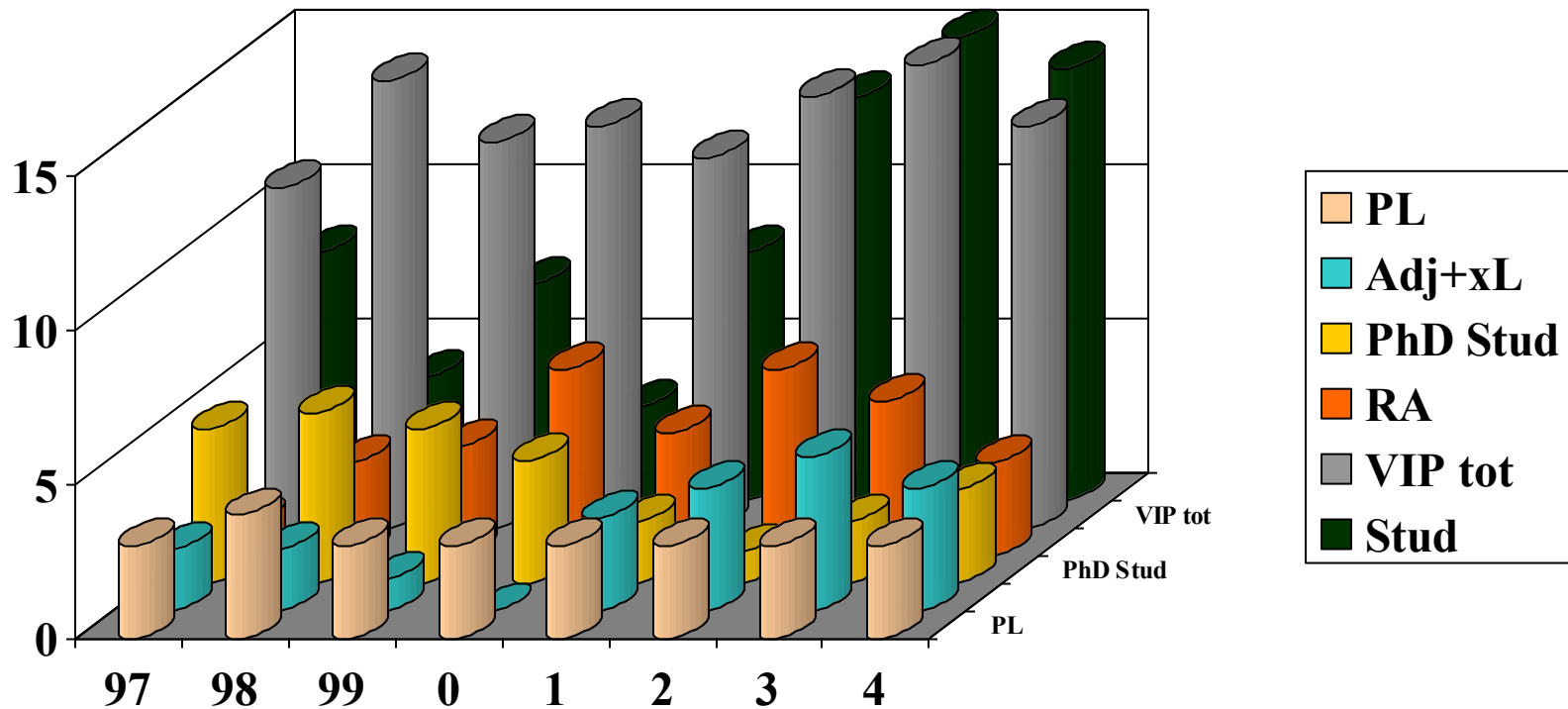
LBA/LIA - CVMT, 1997 - 2006

External Funding (Projects)



LBA/LIA - CVMT, 1997 - 2004

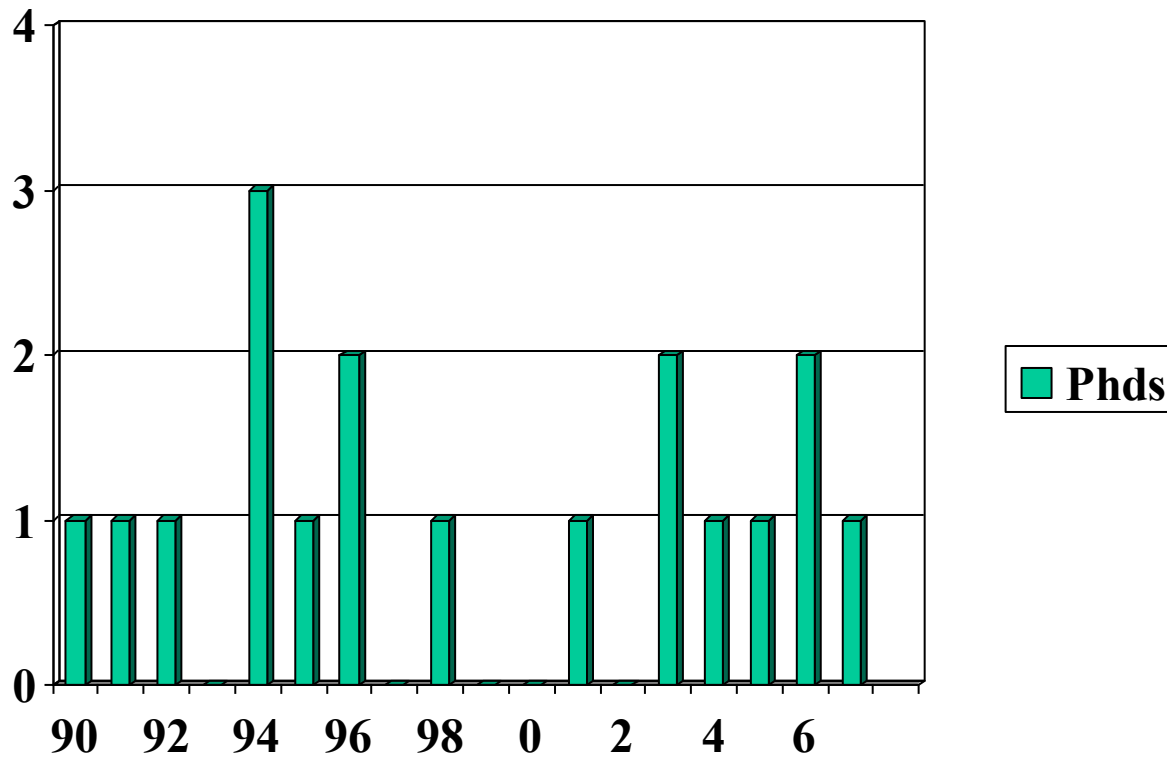
Personnel



PhDs from CVMT

1990-2007

(Total 18)



Where are we? (1)

- Who are we?
 - 3+1 Prof./Lecturer (3 AAU, 1 Ext.)
 - 3 Adjuncts/Post Docs (2,5 AAU, 0,5 Ext)
 - 3 PhD.Stud (1 AAU, 2 Ext.)
 - 3 RA (Ext.)
 - 1 Secretary (CVMT)
 - 1 Research Officer (CVMT)
 - Some Associates (not on our payroll)
- 15 on payroll
 - 6,5 AAU posts
 - 2 CVMT posts (CVMT annum + Ext. OH)
 - 6,5 Externally funded posts

Where are we? (2)

- Why are we here?
 - Purpose, Goals, Commitments
 - Basic / Applied Research (New Insight)
 - Computer Vision, Computer graphics
 - Virtual & Augmented Reality, Visualisation
 - Vision Guided Interfaces? Bi-directional Communication
 - Inter disciplinary?
 - Research Based Teaching
 - PhD education
 - Specialisation (M.Sc. Level)
 - Contributions to misc. basic/related educations

Where are we? (3)

- How are we doing?
 - Research
 - Teaching
 - Facilities, Equipment
 - Organisation
- SWOT Analysis ?
 - Strength, Weaknesses, Opportunities, Threats

How are we doing? (1)

- Research Results
 - Publications: Journals, Conferences (Enough?)
 - Publ. 1999-2004: 12, 13, 14, 19, 27, 16 (Jan-Sep)
 - Recognition: Nationally, Internationally (?)
 - OK, but should attract more foreigners
 - Critical Mass, Fields of expertise (more focus?)
 - OutDoor Vision, Colour, tracking, 3D-reconstr. Biol. Obj., HDR
 - Lighting est.: Spectral distr. (HJA,MST), Spatial distr. (CBM)
 - AR shading/shadows, Real Time visualisation/"animation"
 - Resources & Activity
 - Manpower Ext 5: 1 Associat Prof., 2 PhD, 2 RA
 - 3 large projects (Co-ordinating 2 of them)
 - Ca. 4 Mill. DKK Ext. funding per year (03, 04)

How are we doing? (2)

- Teaching
 - Good quality and quantity of candidates!
 - CVG popular (well done!)
 - But general number of students falling!!!!
 - Too little interests in VR (for CVG, more for Dat)
 - Courses versus project themes, related to research?
 - Interdisciplinary education
 - IMM limited success, Fading?
 - DAT some success, now lost
 - HUM, A&D, some attempts but?
 - Mediology (CPH, Esbjerg)?
 - Good production of PhDs (04: 1 + ?)

How are we doing? (3)

- Facilities & Equipment
 - Good offices, meeting and seminar rooms
 - Office "Environment", 7 persons
 - Office workstation per employee
 - Good network and server functions
 - Good Lab space for research and students
 - Well equipped, general and special
 - VR-centre facilities available
- Lab organisation much improved in 2004

How are we doing? (4)

- Organisation, relationships (un)certain
 - Independent like a little Institute
 - Pro
 - Engage as we like, Research and teaching
 - Control of own income and spending
 - "Own" identity!
 - Con
 - Hard to get new posts, Lack of influence upwards
 - Hard to maintain teaching obligations
 - Hard to maintain admin and support functions !
 - All financial Ghosts eliminated
CVMT finances stabelised

How are we doing? (5)

- Social Activity and Meeting Behaviour
 - VRML Friday Rundstykker, Coffee
 - CVMT
 - Meetings every 2 weeks
 - Seminars, - too few but improved!
 - Lunch facilities OK?
 - Summer grill?
 - "Bagjul" (xxxday xx DEC in/at xxx)
 - ?
 - Institute / VRML
 - Christmas Lunch(es)?

So, Here we are!

- Bigger than ever
- Stronger than ever
 - Still wanna grow?
- BUT
 - The old guys are fading
 - A new generation ready?
 - Who wants to take over?
 - Who will contribute?

Where are we Heading?

– Research

- Fields of expertise? Get very good at fewer things?
- Level of ambitions (Quality & Quantity) ?
- New Projects? Internal Synergy! Maintain/increase level of activity?

– Teaching

- Alternative/new specialisations? Interdisciplinarity? Basis/Bachelors?
- Design for recruitment, Relate to research

– Facilities

- Exploit what we have!
- Get new enabling technology

– Organisation

- More Posts, Influence, relation to IST, VRML,? Continue independence?
- Improve CVMT-infrastructure! Contributions required?

End!

- The State of the Union is not too bad
 - Quite good, actually. Just now.
- If the Union can offer what you like
 - Contribute to it
 - Use it
 - Maintain it
- Based on Mutually Responsible Collaboration
 - NO nannies available!!
- Time to do a SWOT Analysis ?
 - Strength, Weaknesses, Opportunities, Threats

Hvad lever vi af? (1)

- CVMT-regnskab 1,3 mill/år
 - Indtægter
 - AAU Ansatte får annum 780kkr
 - Projekt OH m.m. 520kkr
 - Udgifter
 - Løn 600Kkr
 - Institut 220kkr
 - Telefon, kontor, porto, kopiering/tryk, udstyr/værksted, rejser, kurser/internat, bøger, møbler
- Til "Fri" disposition – ej "øremærket"

Hvad lever vi af? (2)

- Project regnskaber (4.5mill/år)
 - Løn (størsteparten)
 - Udstyr
 - Rejser
 - Div
 - OH
- Allowable costs only!!!

Nye Stillinger – flere studerende

- AAU
 - Lektor i 2005, adjunkt i 2006/7
- Forudsætter studerende, undervisning
- Nye uddannelser, Bologna?
- Nye forsknings/aktivitets-områder
 - VR / AR
 - ”HCI” – ”in-house” tværfaglighed?
 - VRML / InDiMedia mm.