

- Oscar Wilde

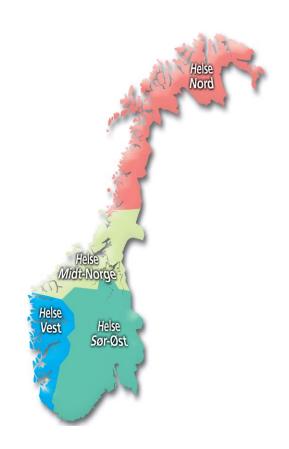


OSCAR project
EuPHN 17th Nov 2015
Margrethe Foss
www.oscarvalue.no



FOCUS TODAY

- About OSCAR
- Findings up to now
- Further work in OSCAR



"Sustainable Healthcare buildings: meeting environmental abd social challenges"



OSCAR – THAT IS US!























■ STATSBYGG













Long term owners, user organisations, developers, technical contractors, contractors, architects, consulting engineers, research institutes, universities, FM software developer





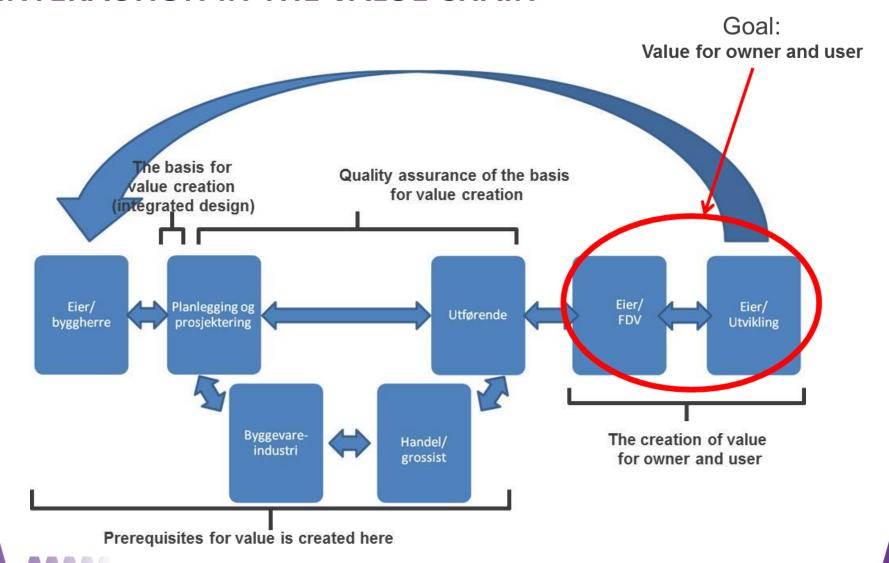
Strengthen competence and develop methods and tools which enables optimization of building design in a way that contributes to value creation for owner and user throughout the buildings life time.

2014-2017

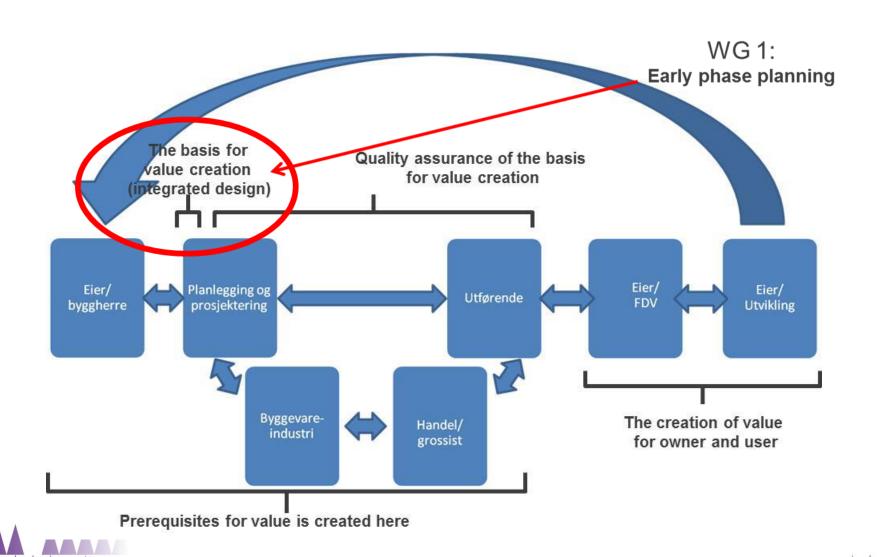








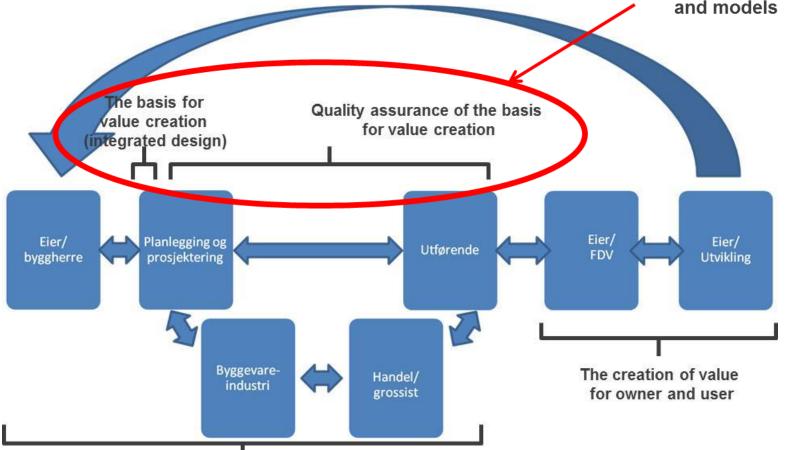






WG 2:



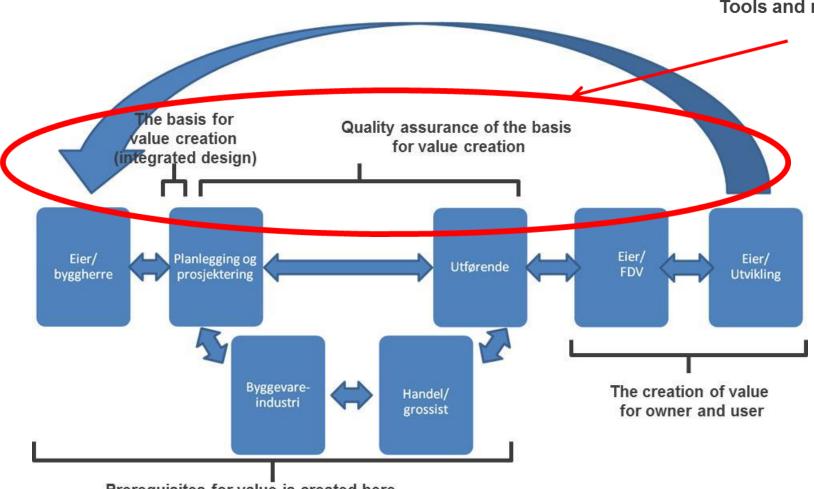


Prerequisites for value is created here





WG 3: **Tools and methods**



Prerequisites for value is created here





• What do we mean with value?

- Value for whom?
- Users, owner and society
- Users; clients, customer and end-users (ref. EN NS 15221-1)
- End-users; patient, relatives, staff, etc.





VALUE CREATION



WP1

CHARACTERISTICS

ECONOMIC

SOCIAL People and

Organization

ENVIRONMENTAL

PHYSICAL Space and Infrastructure **ECONOMIC INCENTIVES**

KNOWLEDGE

CONTRACT

PROCESSES AND ASSURANCE QUALITY

WP2

ORGANIZATION
OPERATION
SERVICES

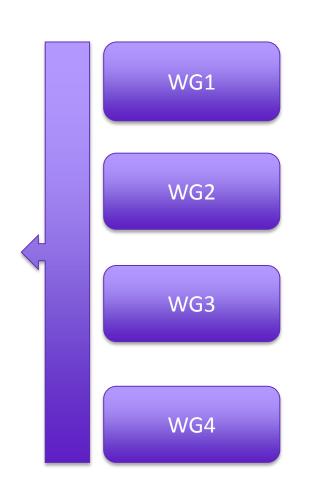




END PRODUCTS



- «OSCAR word-book»
- Interactive guideline
- Collection of case descriptions
- Papers and articles







FINDINGS UP TO NOW...





(partly based on literature review)

Value for users and owners?

KPIs?

Obstacles?

Lit. review

Work-shops/interviews







RESULT SURVEY - GENERAL TARGET GROUP: PROFESSIONALS REFM

	All respondents except hospitals (N=480)	Respondents hospitals (N=90)		
	Mean score, 1-4	Mean score, 1-4		
DO USERS AND	3,18 (to some	3,19 (to some extent-		
OWNERS HAVE	extent-largerly	largerly extent)		
DIFFERENT PRIORITIES	extent)			
REGARDING VALUES?				







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RESULT SURVEY - GENERAL EXPERIENCE EMPHASIS "VALUE FOR USERS AND OWNERS"

Economic Social Environmental Physical	All respondents except hospitals (N=480-540) Mean score, 1-4	Respondents hospitals (N=80-90) Mean score, 1-4
Investment cost	3,39	3,40
Lifecycle cost	2,79	2,73
Energy efficiency	3,20	3,11
Indoor climate and comfort	3,17	3,00

RESULT SURVEY - GENERAL EXPERIENCE WITH "ASSESSMENT AND KPI"



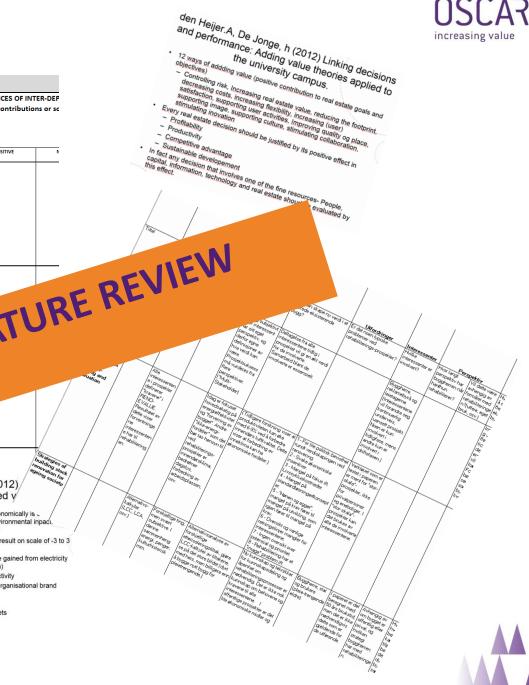
	All respondents except hospitals (N=480-540) Mean score, 1-4	Respondents hospitals (N=80-90) Mean score, 1-4
Building condition	59%	70%
Area use	59%	57%
Energy consumption	69%	56%
Cost OMD	42%	40%
Indoor climate	52%	41%
User and/or customer satisfaction	49% 40/60	35%



		Work Package 1				
No	STAKEHOLDER GROUP (Specified)	CHARACTERISTIC and SOLUTIONS OF BUILDINGS which contribute to value creation in user- phase during the Life Cycle		DEFINITION OF VALUE CREATION	EVIDENCES OF INTER-DEF of contributions or so	
		CONTRIBUTE	DO NOT CONTRIBUTE	According to Author's Definition	POSITIVE	,
	Property management role (owner), health care business (owner)	Adaptability, communication, capability and training, long term planning		Strategic FM (fulfill the four activities): Search / Translate/ Process Management / Demonstrate (Howarth 2006, Kaya 2004). Search - proactive strategic role askin what to do with business direction. Translate - translate business needs and projects into workplace. Process-manages processes to provide workplace solutions. Demonstrate - results by way of satisfaction and impacts on business outcomesare demonstrated to satisfy the originating needs		
	Client: organisation Customer: unit End user: staff, visitor	STRATEGIC - client satisfaction, culture, reliability, adaptability, cost of owneeding and FM, asset value, or owneeding and FM, asset value, responsibility, copy and responsibility, copy and responsibility, or portion, and responsibility, or post content of the responsibility, responsibility, internal rent, project cost, energy consumption, emissions OPERATIONAL - end user satisfaction, timeliness, socialability, price of services, employment opportunities OUTCOMES OF THE CASE STUDY - corrected to out of the responsibility of the reduction (financial), value by volume, quality and flexibility (non-financial) CO2 emission reduction, environmental portfolio, green account		Value adding management which can support FM organisations to deliver a support FM organisations to deliver a selective so of FM organisation as the support of the support of the support of FM organisation of FM organis	RATU	F
	Client/owner perspective Provider perspective Stakeholders for	Value aspects in the operation phase: indoor conditions, adaptability, service life, safety, accessibility, usability, mainainability.		Value model(s) able to consider multiple aspects: economic, ecological, social and cultural. Generic (holistic) model, applicable to specific business scenarios	S Jou Journal of the Control of the	drategie viding s ovation ng soci

as a way to create added v

- · Median contribution of facility activities economically is 6) of expenses, but 65% (53-82) of the environmental inpact.
- · Impacts after implementation og green FM
- Enhancing employee satisfaction (Avrage result on scale of -3 to 3 went up from 0,68 to 1,20
- · Reducing costs (Biggest cost savings were gained from electricity (-9%) and heating energy (-27%) reduction)
- Increasing employee efficiency and productivity
- · Culture; promoting, marketing, sales and organisational brand (media attention to the project)
- Supporting environmental sustainability
- · Increasing the value of the real estate assets





LITERATURE REVIEW – SOME GENERAL FINDINGS



- Value; we all own the truthto a certain extent
- Frequency of changes increases in the core business, especially in hospitals. Is it possible to define end-product value in early phase?
- Cross sector learning! Oil&Gas and Telecom.
- Large responsibility for purchaser, a need to increase the competence of purchaser.
- Large potential when it comes to the use of <u>digital tools</u>. Fail early.
- Take a <u>pedagogic approach</u> to the methods used in the sector, to get users to contribute purposefully in the projects.
- Large potential regarding the use of time and resources in the early phase - include the perspectives of the users, by focusing on the project effects.



RESULTS SURVEY - GENERAL

EXPERIENCE "OBSTACLES FOR OBTAINING VALUE FOR USERS AND OWNER"

EXPERIENCE OBSTACLES FOR OBTAINING VALUE FOR OBERS AND OWNER					
Walter Ricciardi «Best ideas comes from	All respondents bottom up» spitals (N=480-540)	Respondents hospitals (N=80-90)			
Mona Larsen «Nothing about us – wit	hout us» Mean score, 1-4	Mean score, 1-4			
Lack of appropriate and clear commissioning of the project (mandate)	2,74	2,87			
Missing multidisciplinary understanding in the project organization	2,70	2,87			
Missing focus on and knowledge about the operational phase	2,75	2,90			
The technical professions has a too dominant role in early phase project	1,98	2,02			
development		•			

72% of the respondents have a degree in engineering

- The industry's own conception of the need for improvement and results of the national and international research does not match.
- Need for more knowledge:
 - What is value for clients, customers and end-users?
 - What are users experiences regarding obstacles?
 - The significance of this findings in real estate projects, especially in the early phase.
- Methods and tools the bridging the gap.



CASES IN PROSESS – HOSPITALS/HEALTH CARE

- Case: Oil&Gas sector versus Hospitals planning prosess
- Case: Post Occupancy Evaluations method/tool.
 - Development and tests
 - Value for You or Your organization? «wanted position» and «as is»
 - «Is this reflected in early phase PM?»
 - Tool/method for coming project
- Case: Is the building used as planned?
- Case: Strategic area planning
- Case: Using BIM gaining value



Ph.d, master- and bachelorstudents







