Conference RACC Buchuresti, 27th of May 2016

VDI



Dipl.-Phys.
Prof. Dr. Horst Weißsieker

Von der Industrie- und Handelskammer zu Köln öffentlich bestellter und vereidigter Sachverständiger für Reinraumtechnik

Sustainability in the Design, Construction and Operation of Hospitals – the Standard for Hospitals for Environment, Efficiency, Quality, Hygiene and Safety

Prof. Horst Weißsieker, VDI

Sustainability in the Design, Construction and Operation of Hospitals VDI 5800

Minimum Savings in Europe

	Hospitals	Economy
Energy Savings / annum:	6 Billion €	
Efficiency Optimization 10 %:	70 Billion €	
Malpractice: (estimates 5 – 10 Million cases / annum)	30 Billion €	30 Billion €
Nosocomial Infections (estimates 5 – 10 Millon cases per year 100.000 – 200.000 death toll per year 20.000.000 additional days unnecessary in hospitals)	30 Billion €	50 Billion €

IN THE RANGE OF GDP ROMANIA



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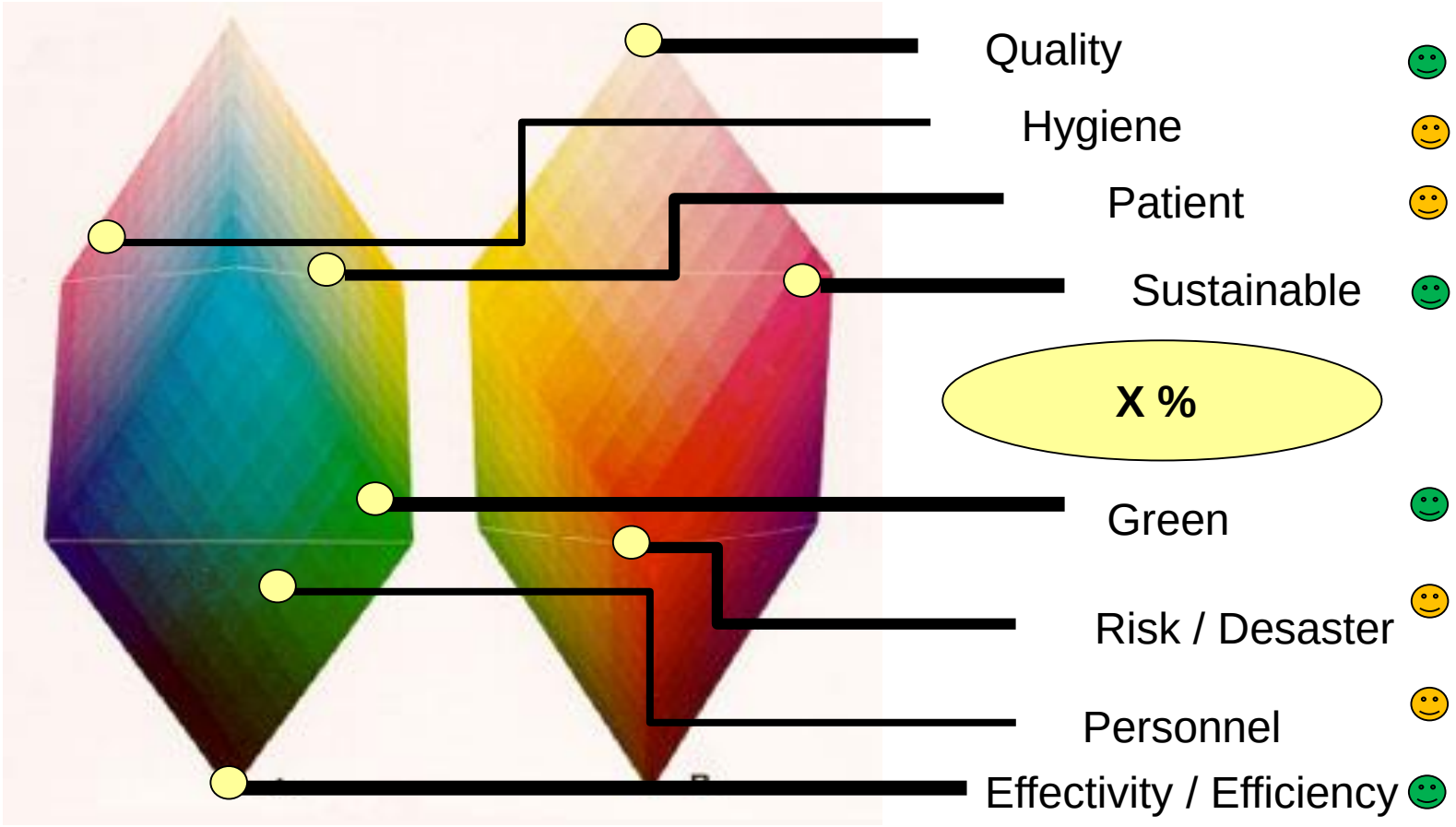


Life Time of Buildings:	40 – 45 Years
Technology Generation:	15 Years
Device Generation:	3 – 5 Years



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Measurability and Assessment!



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Quality of Structure, Process and Results

Work Flow and Services

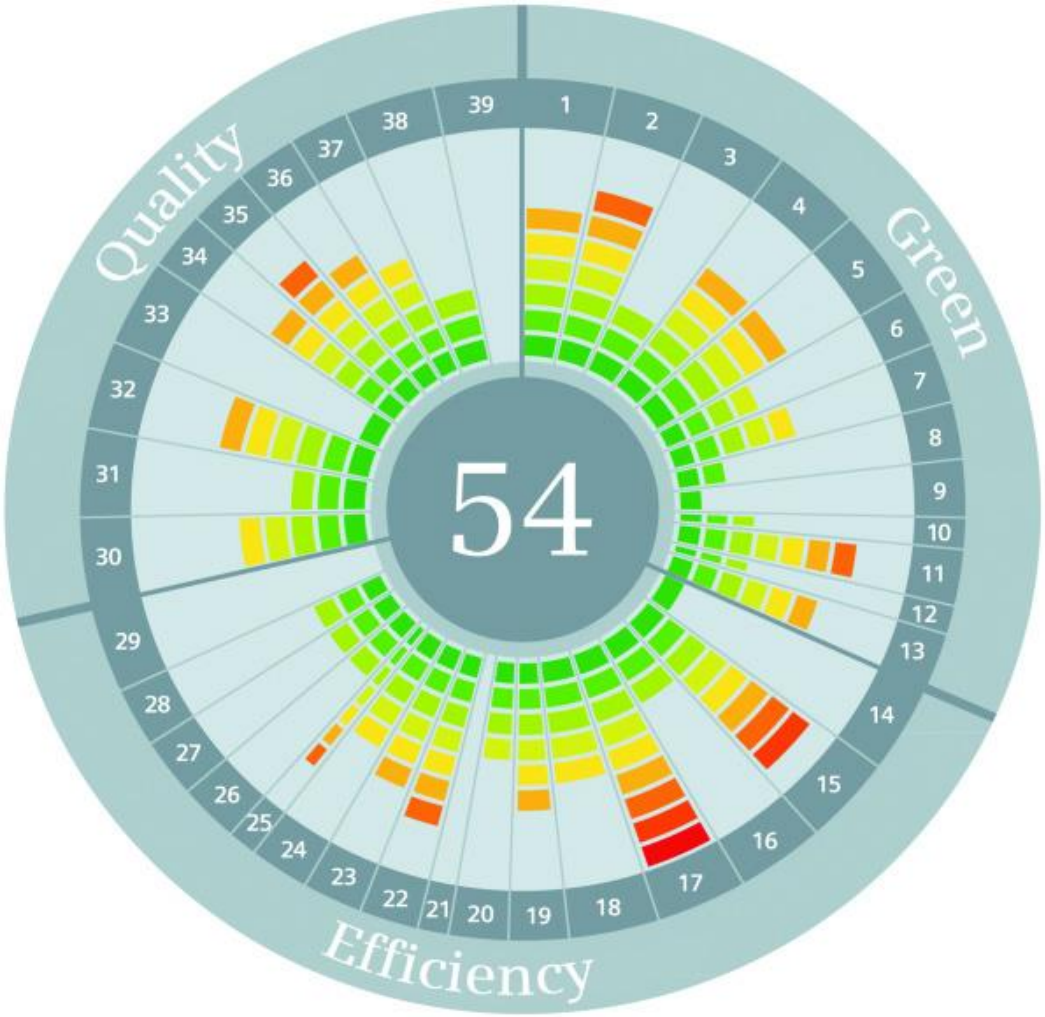
Information and Communication

Medical and Laboratory Technologies

Building and Energy

https://www.vde.com/de/infocenter/seiten/details.aspx?eslshopitemid=03b94ae7-bc01-4c6d-93be-c3de1604e60f

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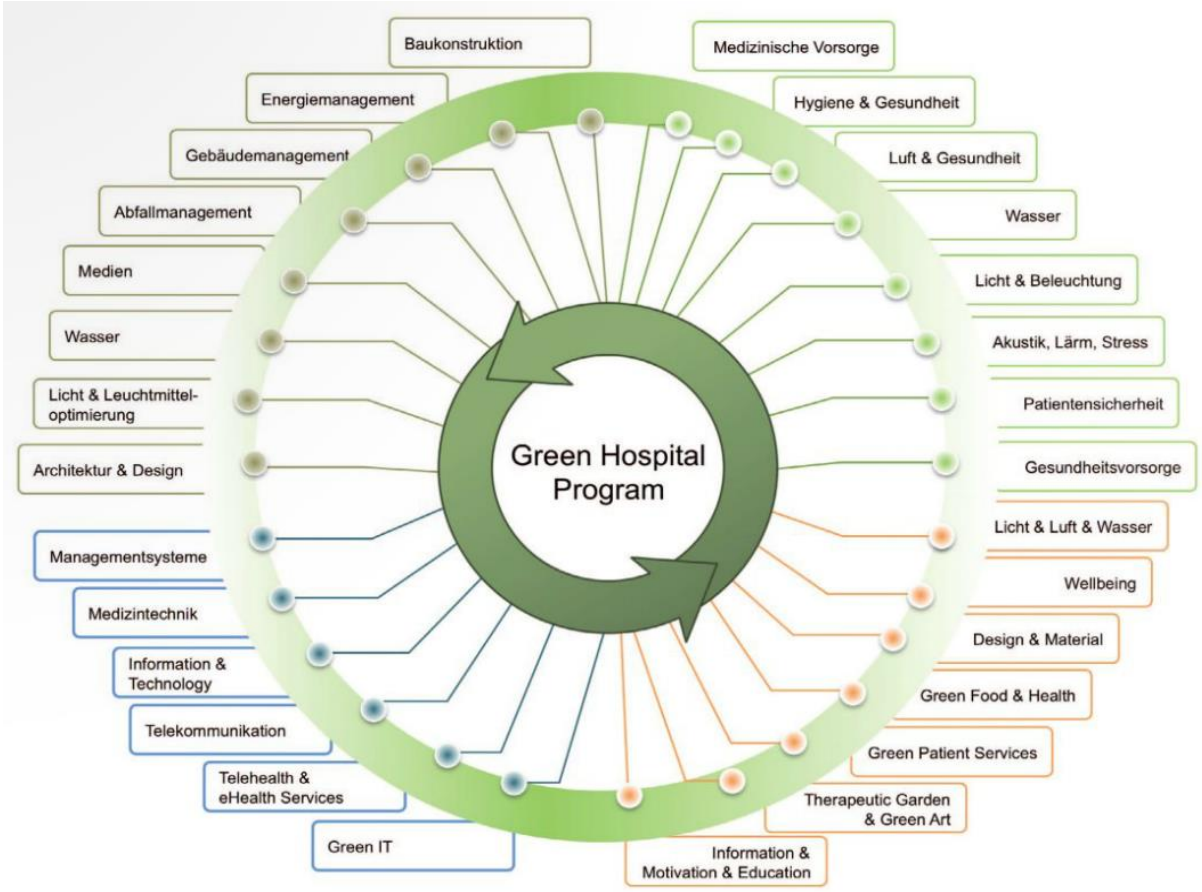


Siemens

Green+H ospital Evaluation

http://www.medical.siemens.com/webapp/wcs/stores/servlet/CategoryDisplay~q_catalogId~e_-3~a_categoryId~e_1029615~a_catTree~e_1021331,1029615~a_langId~e_-3~a_storeId~e_10001.htm

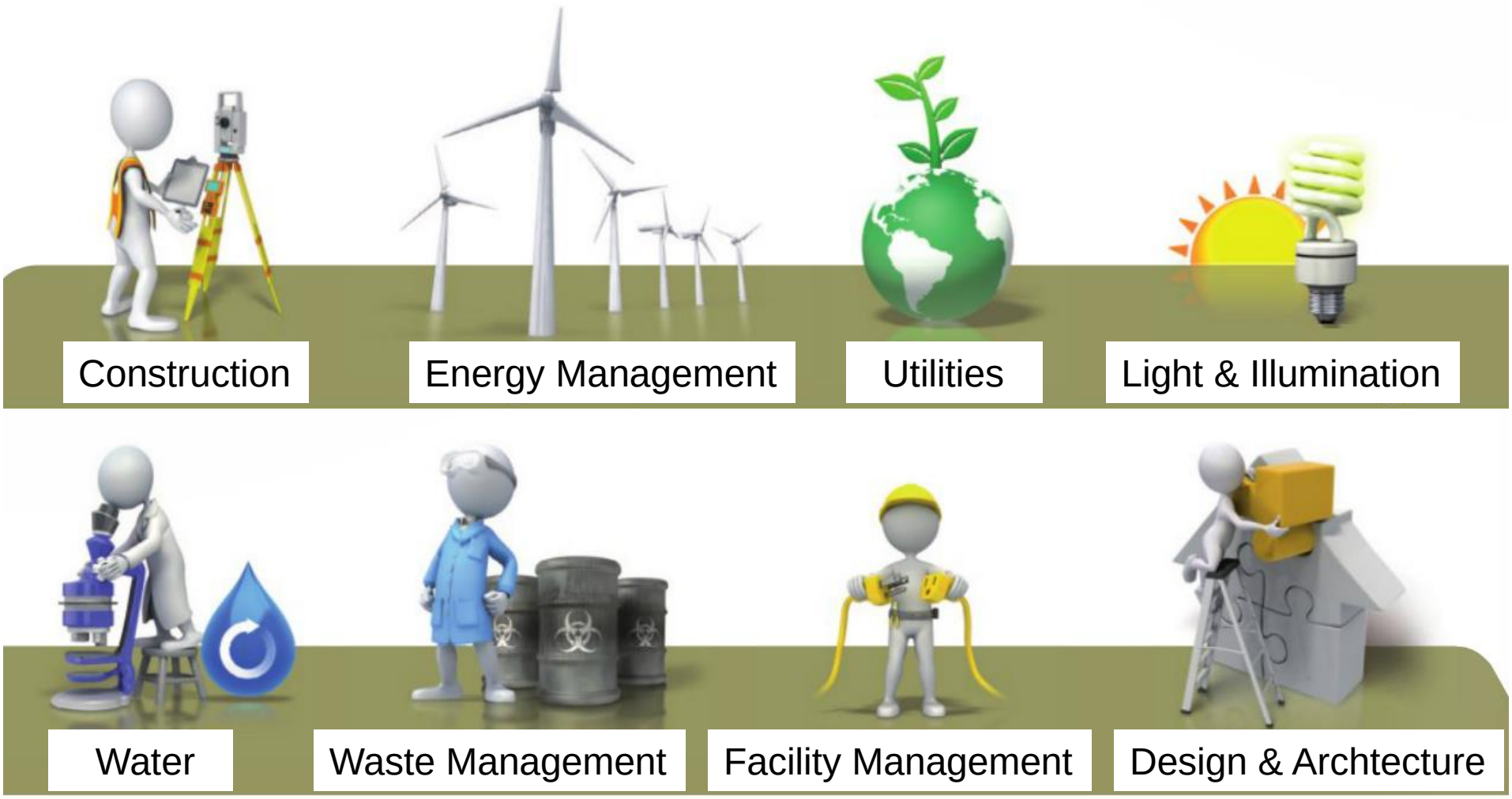
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Asklepios Green Hospital

www.greenhospital-blog.com/

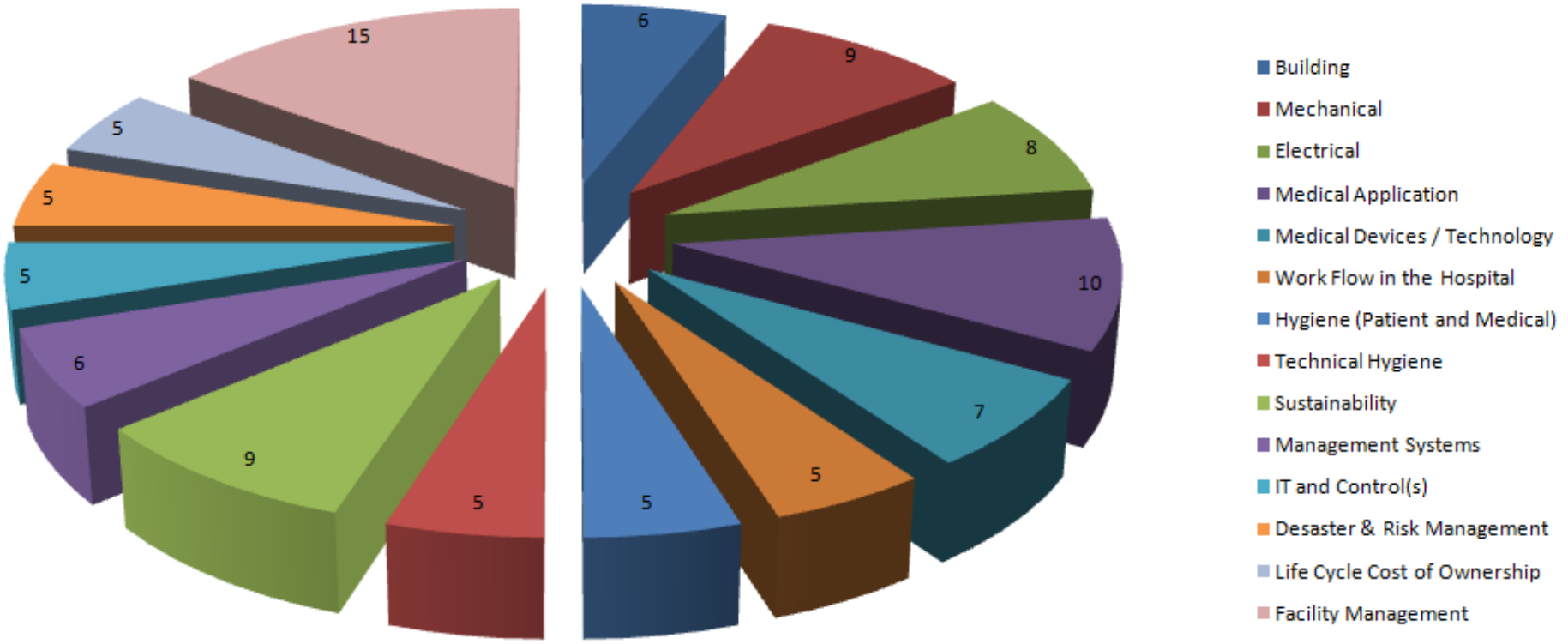
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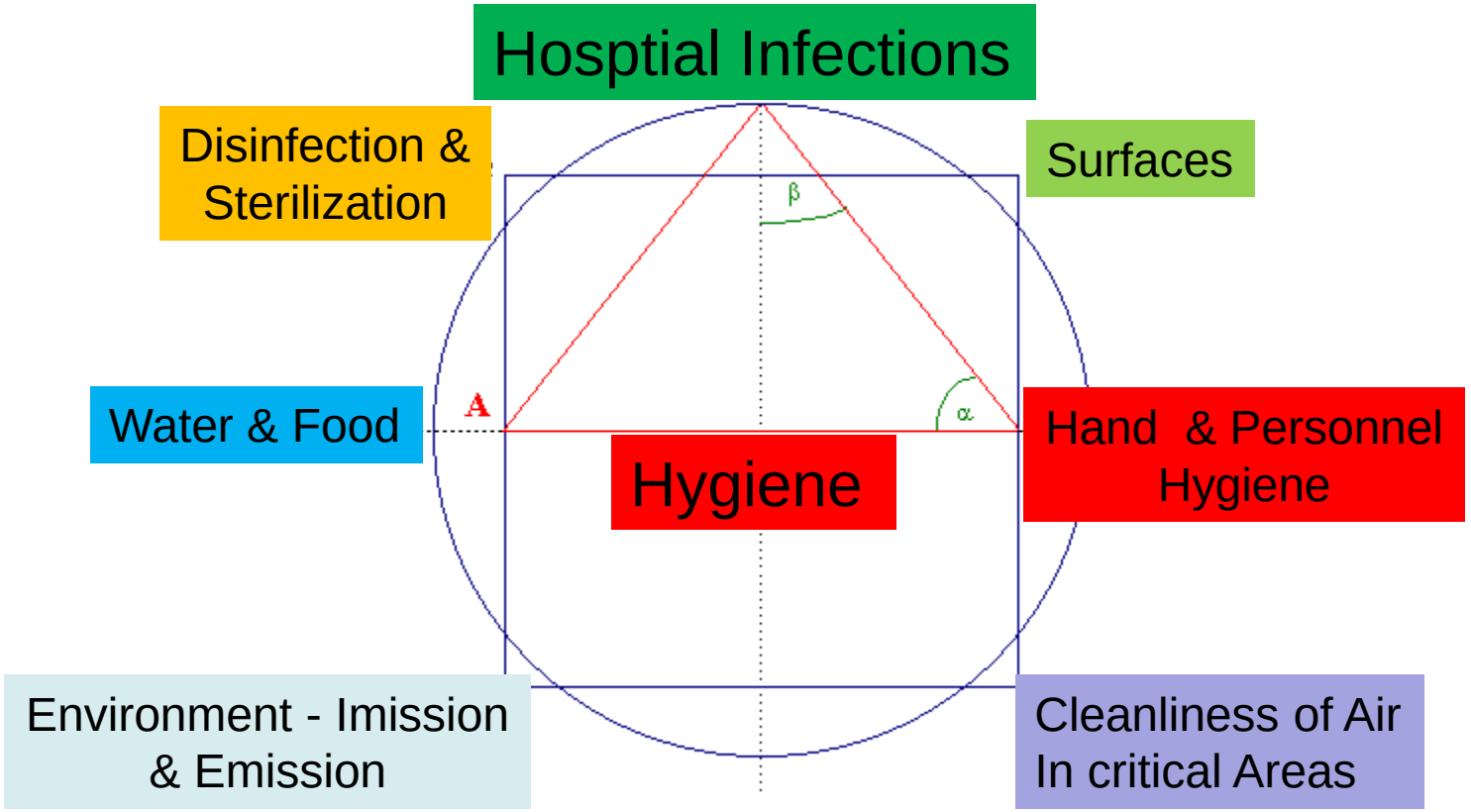
www.greenhospital-blog.com/

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Elements of Sustainability in %



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Billions of Euro to be saved by already known MEASURES

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28 % of all cost are for facility management!







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Holistic & Integrated

Everything under one Roof

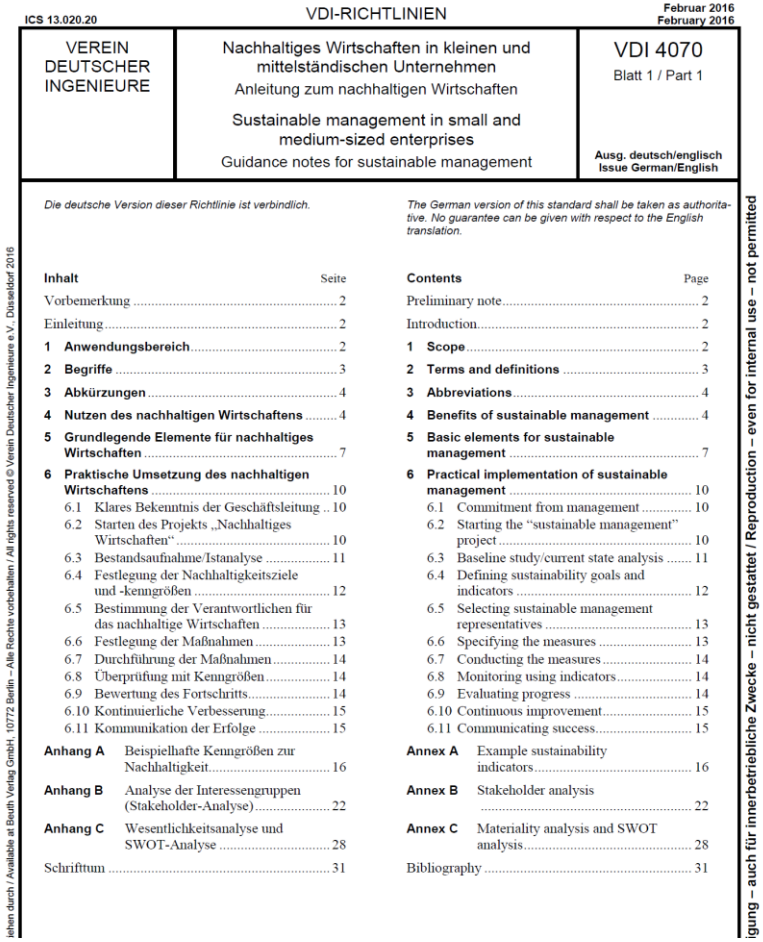


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List of Practices / Regulations:

- VDI 5800 “Sustainability in the Design, Construction and Operation of Hospitals”, Part 1 “Introduction, Structure and Overview”, Draft, 2016
- VDE Blue Hospital “Sustainable Hospital”, VDE AR-E-2750-109
- VDI 4070 “Sustainable Management in Small and Medium Sized Enterprises”, Part 1, February 2016
- HTM 07-07, “Sustainable Health and Social Care Buildings – Planning, Design, Construction and Refurbishment”, 2013

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ICS 13.020.20 | VDI-RICHTLINIEN | Februar 2016 / February 2016

VEREIN DEUTSCHER INGENIEURE

Nachhaltiges Wirtschaften in kleinen und mittelständischen Unternehmen
Anleitung zum nachhaltigen Wirtschaften

Sustainable management in small and medium-sized enterprises
Guidance notes for sustainable management

VDI 4070
Blatt 1 / Part 1

Ausg. deutsch/englisch
Issue German/English

Die deutsche Version dieser Richtlinie ist verbindlich.

The German version of this standard shall be taken as authoritative. No guarantee can be given with respect to the English translation.

Inhalt Seite

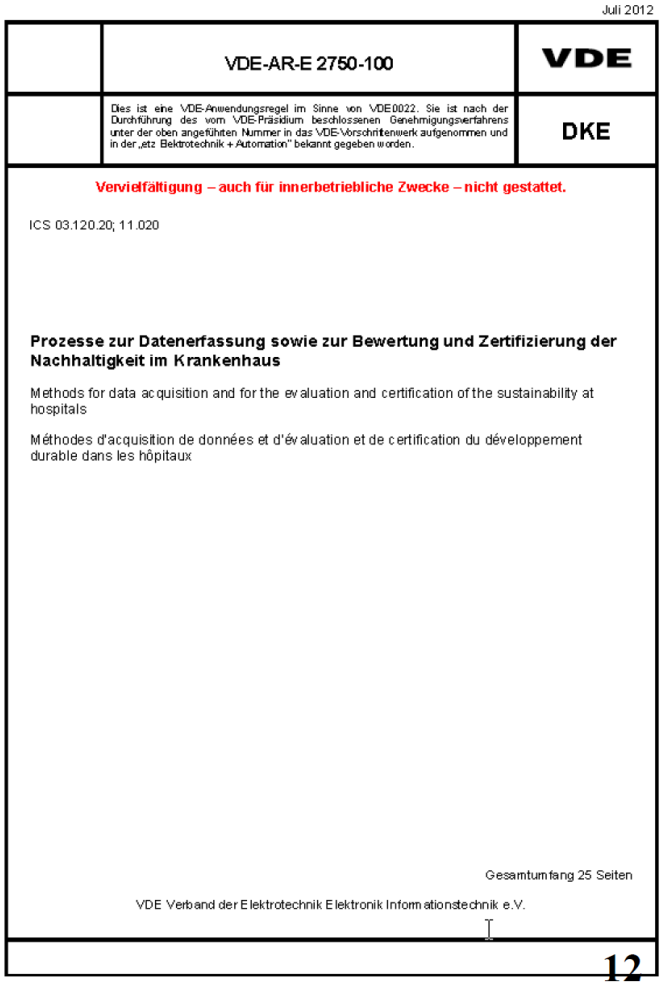
Vorbemerkung ... 2
Einleitung ... 2
1 **Anwendungsbereich** ... 2
2 **Begriffe** ... 3
3 **Abkürzungen** ... 4
4 **Nutzen des nachhaltigen Wirtschaftens** ... 4
5 **Grundlegende Elemente für nachhaltiges Wirtschaften** ... 7
6 **Praktische Umsetzung des nachhaltigen Wirtschaftens** ... 10
6.1 Klares Bekenntnis der Geschäftsleitung ... 10
6.2 Starten des Projekts „Nachhaltiges Wirtschaften" ... 10
6.3 Bestandsaufnahme/Istanalyse ... 11
6.4 Festlegung der Nachhaltigkeitsziele und -kenngrößen ... 12
6.5 Bestimmung der Verantwortlichen für das nachhaltige Wirtschaften ... 13
6.6 Festlegung der Maßnahmen ... 13
6.7 Durchführung der Maßnahmen ... 14
6.8 Überprüfung mit Kenngrößen ... 14
6.9 Bewertung des Fortschritts ... 14
6.10 Kontinuierliche Verbesserung ... 15
6.11 Kommunikation der Erfolge ... 15
Anhang A Beispielhafte Kenngrößen zur Nachhaltigkeit ... 16
Anhang B Analyse der Interessengruppen (Stakeholder-Analyse) ... 22
Anhang C Wesentlichkeitsanalyse und SWOT-Analyse ... 28
Schrifttum ... 31

Contents Page

Preliminary note ... 2
Introduction ... 2
1 **Scope** ... 2
2 **Terms and definitions** ... 3
3 **Abbreviations** ... 4
4 **Benefits of sustainable management** ... 4
5 **Basic elements for sustainable management** ... 7
6 **Practical implementation of sustainable management** ... 10
6.1 Commitment from management ... 10
6.2 Starting the "sustainable management" project ... 10
6.3 Baseline study/current state analysis ... 11
6.4 Defining sustainability goals and indicators ... 12
6.5 Selecting sustainable management representatives ... 13
6.6 Specifying the measures ... 13
6.7 Conducting the measures ... 14
6.8 Monitoring using indicators ... 14
6.9 Evaluating progress ... 14
6.10 Continuous improvement ... 15
6.11 Communicating success ... 15
Annex A Example sustainability indicators ... 16
Annex B Stakeholder analysis ... 22
Annex C Materiality analysis and SWOT analysis ... 28
Bibliography ... 31

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Juli 2012

VDE-AR-E 2750-100

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DKE

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ICS 03.120.20; 11.020

Prozesse zur Datenerfassung sowie zur Bewertung und Zertifizierung der Nachhaltigkeit im Krankenhaus

Methods for data acquisition and for the evaluation and certification of the sustainability at hospitals

Méthodes d'acquisition de données et d'évaluation et de certification du développement durable dans les hôpitaux

Gesamtumfang 25 Seiten

VDE Verband der Elektrotechnik Elektronik Informationstechnik e.V.

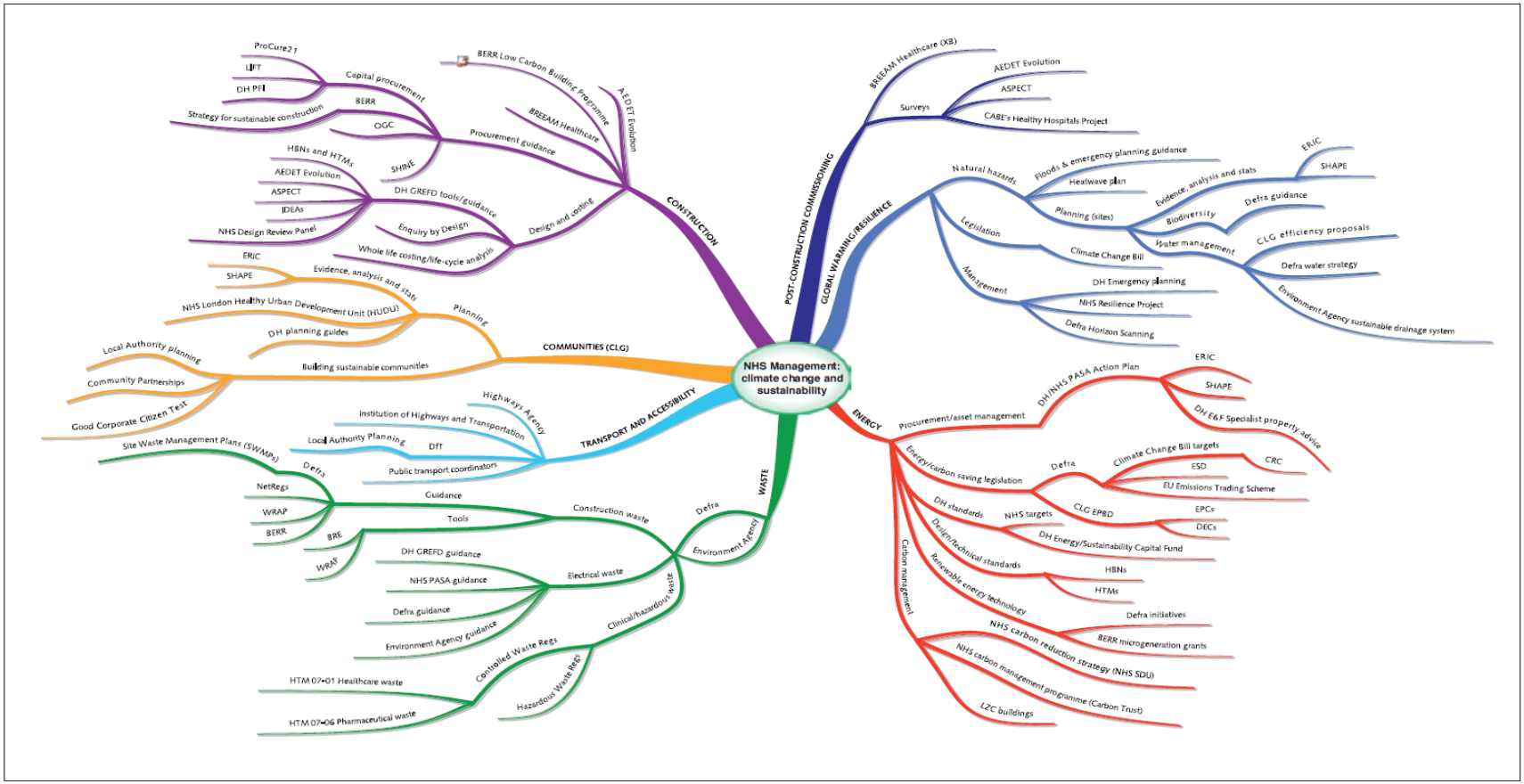
12

Supporting Guidelines

VDE INSTITUT

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Supporting Guideline HTM 07-07



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- **Where we are:**

Part 1 as an Umbrella Guideline End of 2016

Part 2 Building and MEP Start 2017

Part 3 Medical Devices and Medical Quality Start 2017

Part 4 Hygiene

Part 5 Facility Management

Part 6 IT & Communication and Laws

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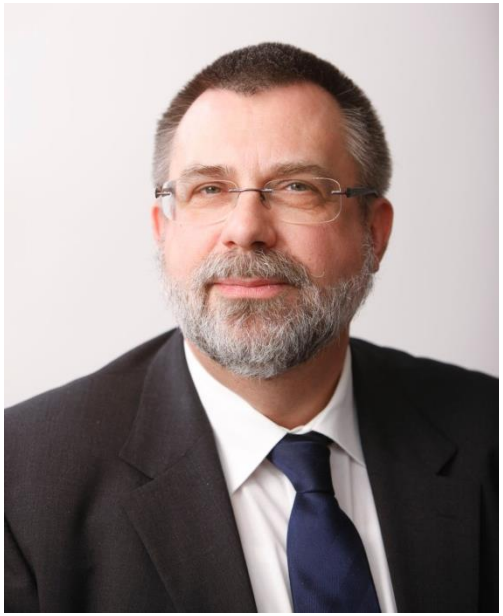


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