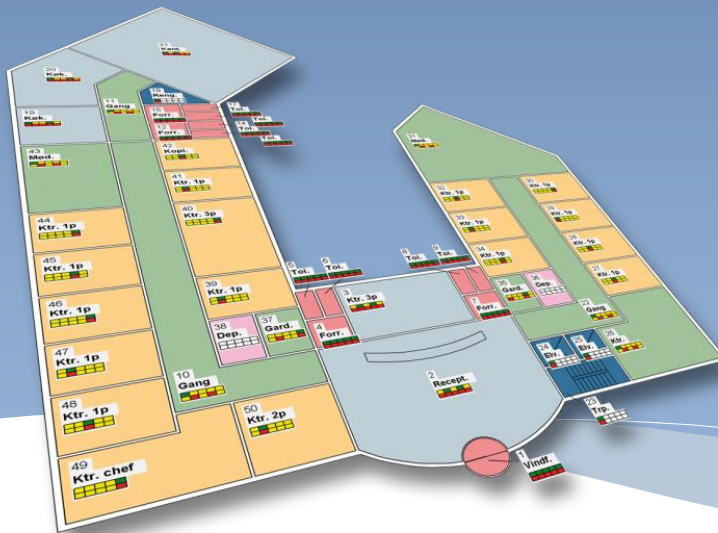


The Cleaning System

- Visual Workloading Software

Quality Control

Aps Data-know-how



Main Concepts

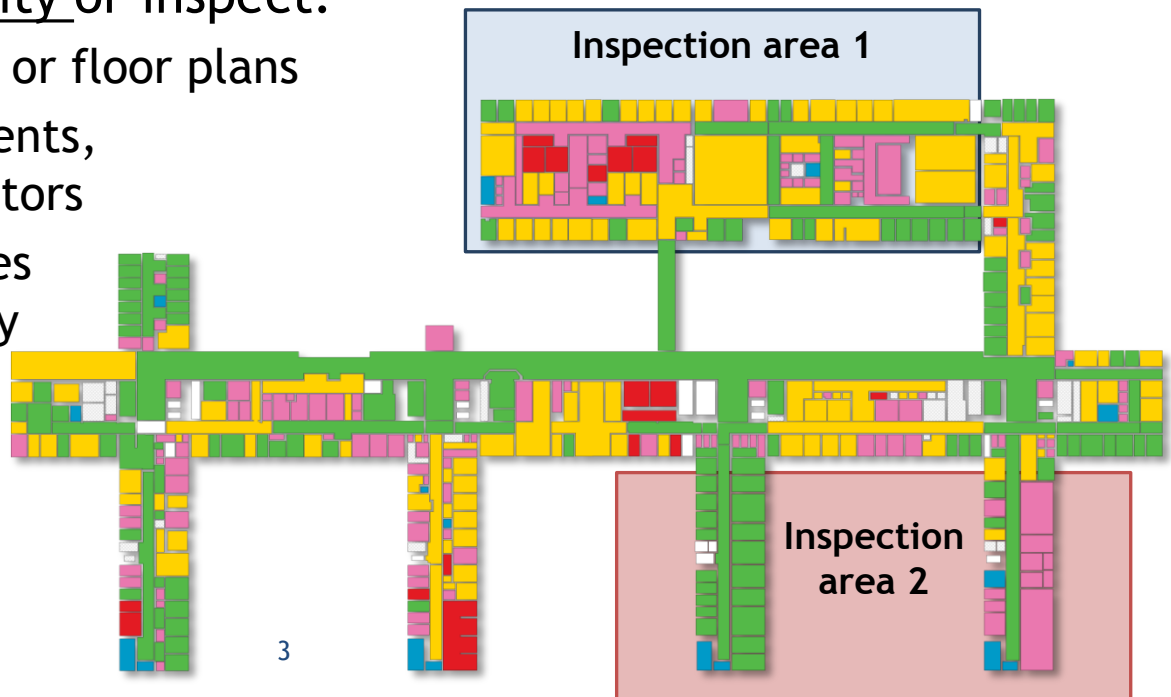


- User defined inspection areas
- Sample based inspections
- Visual inspection of single rooms/spaces
- Different ways of quality assessment
- Automatic calculation of quality levels 1 - 5
- Mobile app “IDEX” used for inspection
- Complete report on errors found, incl. photos

Main Concepts

User defined inspection areas

- Inspect entire facility or inspect:
 - Selected buildings or floor plans
 - Selected departments, supervisors or janitors
 - Selected area types or cleaning/quality profiles



Main Concepts

Sample based inspections

- Statistically correct sample sizes (based on international standard ISO 2859-1:1999)
- Single, double or total sampling
- Random selection of rooms to inspect (within selected inspection area)
- Inspections are accepted or rejected based on number of rooms accepted (Ac) or rejected (Re)

Lot size	Single sampling plans		
<i>N</i>	<i>n</i>	<i>Ac</i>	<i>Re</i>
1 - 15	5	1	2
16 - 25	8	1	2
26 - 90	13	1	2
91 - 150	20	2	3
151 - 280	32	3	4
281 - 500	50	5	6
501 - 1 200	80	7	8

Main Concepts

Visual inspection of single rooms/spaces

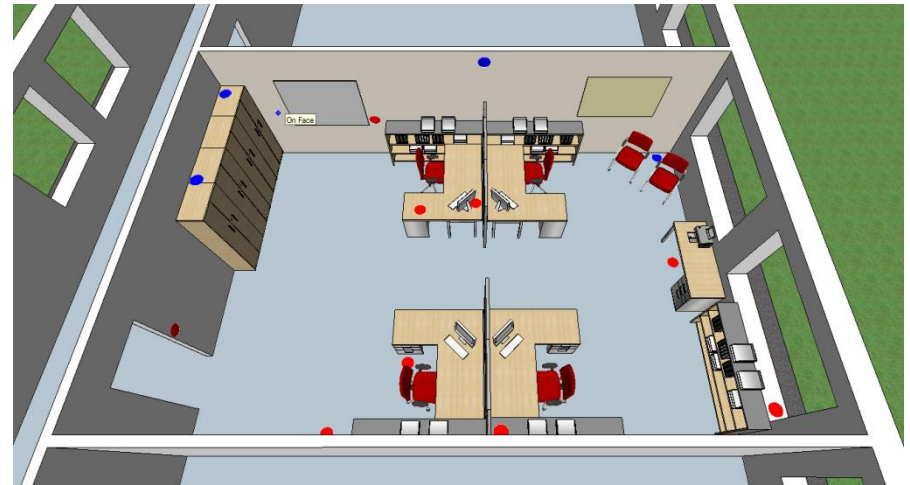
- The inspector counts the number of accumulations of soiling for each room selected for inspection
- Inspection takes place after cleaning, before the room is used



Main Concepts

Different ways of quality assessment

- General cleaning quality
 - Count occurrences of soiling within limited areas on 4 different object groups
- Hygiene/infection focus
 - Count occurrences of soiling on high risk points
- User defined control points / schemes



Main Concepts

Different ways of quality assessment

- User defined combinations of assessment methods

INSTA 800	●			●		●	●
Hygiene control		●		●	●		●
User defined control point			●		●	●	●

Main Concepts

Automatic calculation of quality levels 1 - 5

- The Cleaning System will automatically determine the quality levels from 1 to 5 depending on number of occurrences of soiling
- This give you objective and comparable quality levels

INSTA 800

Cleaning Quality

Measuring system for assessment and rating of cleaning quality

Object groups

- Furniture & fixtures
- Walls
- Floors
- Ceilings

Soiling groups

Group 1:

- Waste and loose dirt
- Dust
- Stains

Group 2:

- Surface soiling

Accumulation of soiling

Occurrences of the same soiling type within limited areas of 1.5 x 1.5 Ft (0.5 x 0.5 m) on an object group

Permitted accumulations of soiling per object group for different quality levels

Room size	Soiling group 1				Soiling group 2						
	0 - 160 SF	161 - 375 SF	376 - 645 SF	646 - 1075 SF	0 - 1075 SF						
	0 - 15 m ²	16 - 35 m ²	36 - 60 m ²	61 - 100 m ²	0 - 100 m ²						
Quality Level	A	NA	A	NA	A	NA	A	NA	A	NA	
	5	1	1	1	2	2	4	4	6	0%	0%
	4	2	3	3	5	5	6	7	8	10%	10%
	3	5	6	6	8	9	12	12	18	25%	25%
	2	7	8	8	10	13	15	18	20	50%	50%
	1	10		12		18		24		75%	75%
	0										

A = Accessible areas

NA = Not immediately Accessible areas

DATA KNOW HOW

CLEANING SYSTEMS

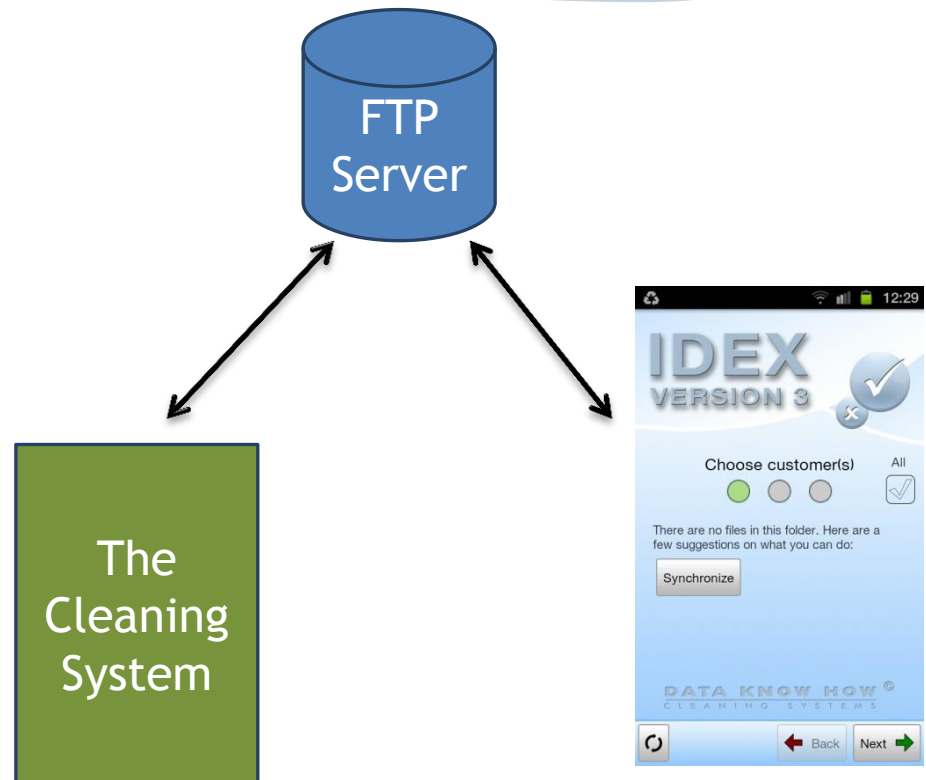
DATA KNOW HOW
CLEANING SYSTEMS

A = Accessible areas NA = Not immediately Accessible areas

Main Concepts

Mobile app “IDEX” used for inspection

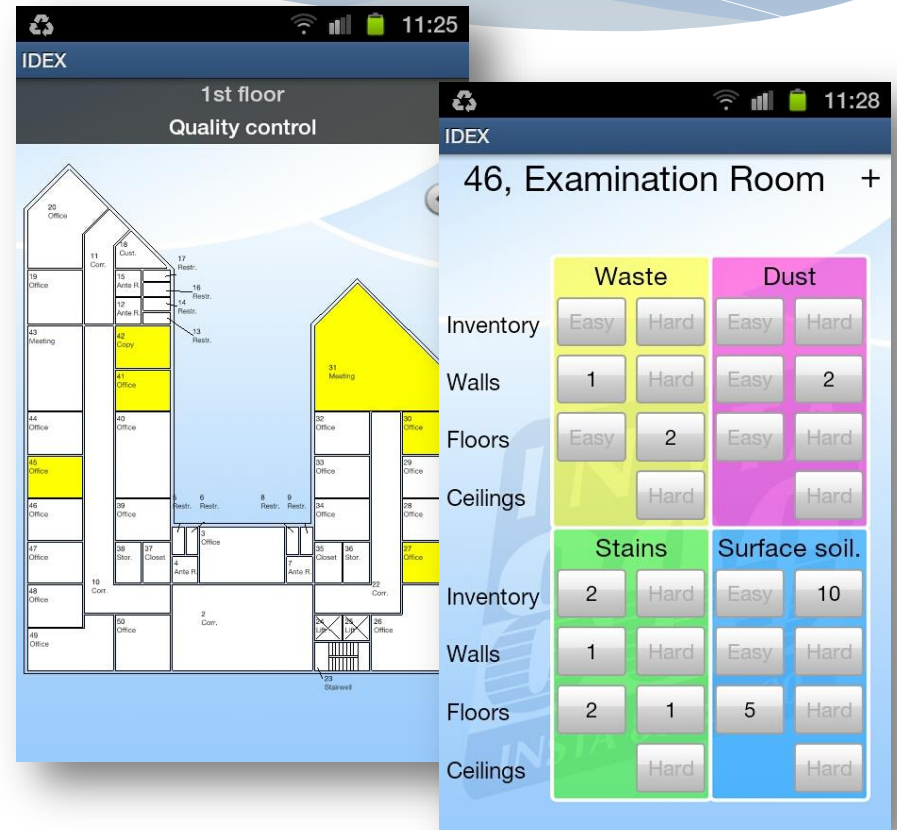
- Available for Android and iOS
- Synchronize inspections via FTP-server
- Works offline



Main Concepts

Mobile app “IDEX” used for inspection

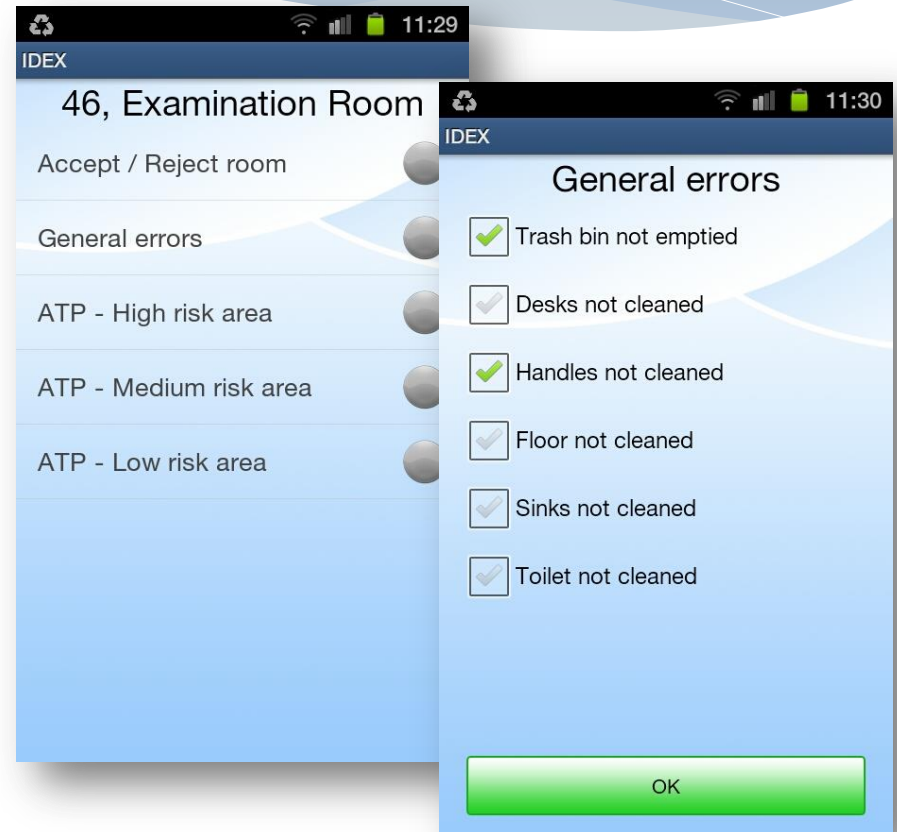
- Use drawings of floor plans from The Cleaning System (select room by click on drawing)
- Easy count of occurrences of soiling (just click the right button to increase count)



Main Concepts

Mobile app “IDEX” used for inspection

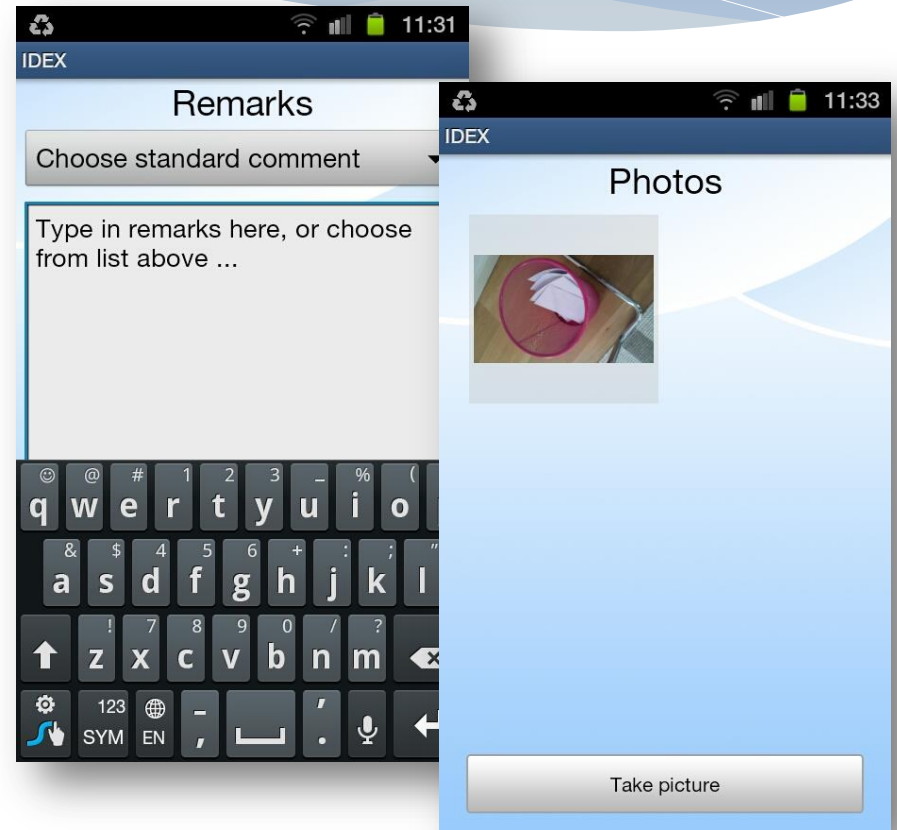
- Use built-in schemes for assessment of general cleaning quality (INSTA / Hygiene control) or “build” your own assessment schemes



Main Concepts

Mobile app “IDEX” used for inspection

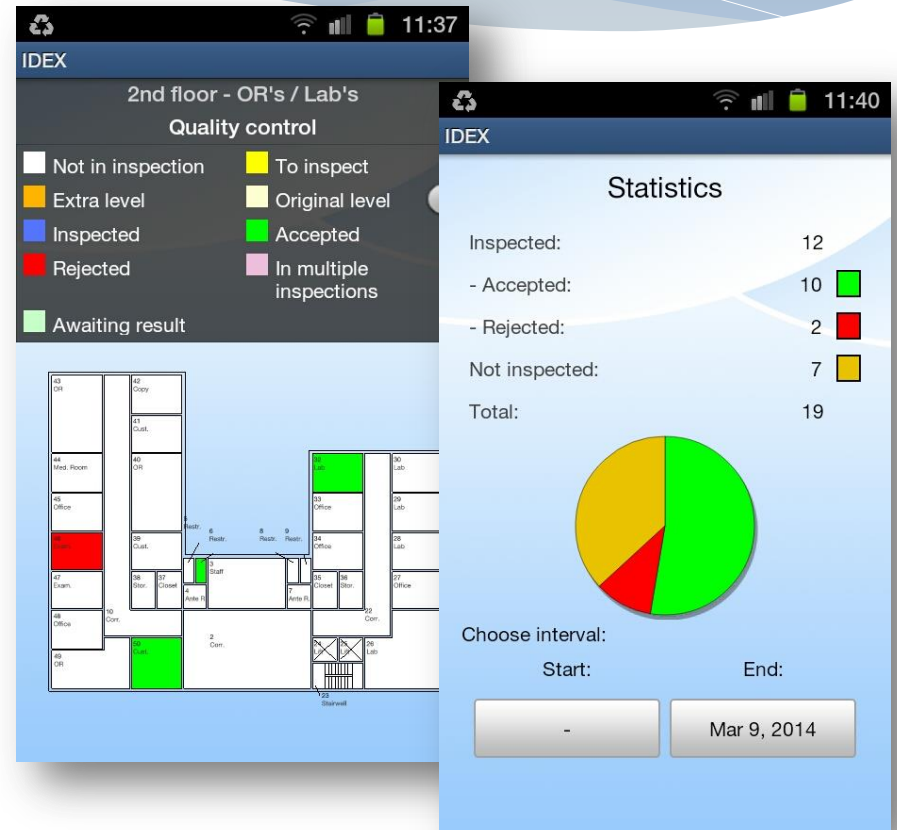
- Add notes or take photos for additional documentation



Main Concepts

Mobile app “IDEX” used for inspection

- Immediate feedback to inspector on accepted and rejected rooms



Main Concepts

Complete report
on errors found
- incl. photos

Result of Inspection		INSTA 800	Hygiene	Add. req.
Accepted	26 rooms	30	29	28
Rejected	6 rooms	2	3	4
Result	Rejected			

Error Distribution					
INSTA 800	Grp. 1		Grp. 2		
	Easy	Hard	Easy	Hard	
Furniture & Fixtures	13	18	0 %	0 %	
Walls	31	39	1 %	0 %	
Floors	20	36	0 %	0 %	
Ceilings		17		0 %	

Hygiene	Human bio mt.	Dust		Waste	
		Easy	Hard	Easy	Hard
Patient Light	0	0	0	0	0
Bedside	0	0	0	0	0
Sink and Faucet	0	0	1	1	3
Screens	0	0	1	0	0
Other Sanitary	0	1	0	0	0
Grips	0	0	2	2	2
Tables	0	0	3	1	0
Stands	0	0	0	0	0
Techn. Installations near Patient	0	0	0	0	0
Other Techn. Installations	0	0	0	0	0

Main Concepts

Complete report
on errors found
- incl. photos


INSTA 800										Hygiene									
Soiling Group										Patient Light									
Furniture										Bedside									
Walls										Sink and Faucet									
Floors										Screens									
Ceiling										Other Sanitary									
										Grips									
										Tables									
										Stands									
										Techn. Inst. near Pat.									
										Other Techn. Inst.									

Administration building


Basement

50	Area:	1.60 m ²	1:	5	3	5	4	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Rejected	
5	Restroom	12/16/2014 1:54:18 PM	2:	5	5	5	5	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	INSTA Hyg. Other	
			Quality Profile 4					Wash-/Bathroom											
			Additional Requirements					Values										Result	
			General errors					Trash bin not emptied										X	

Photo ID		Date & time
6	Office Building_Administration building_Basement_ID50_1418737365958.jpg	12/16/2014 1:42:45 PM
5	Office Building_Administration building_Basement_ID50_1418737339933.jpg	12/16/2014 1:42:19 PM



6



5

150	Area:	3.31 m ²	1:	5	5	5	5	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	Accepted	
15	Ante Room	12/16/2014 1:54:18 PM	2:	5	5	5	5	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	INSTA Hyg. Other	
			Quality Profile 3					Wash-/Bathroom											
			Additional Requirements					Values										Result	
			General errors																

280	Area:	11.17 m ²	1:	5	4	4	5					OK	OK			OK	Accepted		
28	Storage Room	12/16/2014 1:54:18 PM	2:	5	5	5	5										INSTA Hyg. Other		
			Quality Profile 1					Archive											
			Additional Requirements					Values										Result	
			General errors																

380	Area:	5.18 m ²	1:	4	4	5	5					OK	OK			OK	Accepted		
38	Storage Room	12/16/2014 1:54:18 PM	2:	5	5	5	5										INSTA Hyg. Other		
			Quality Profile 1					Archive											
			Additional Requirements					Values										Result	
			General errors																

Main Concepts

Complete report
on errors found
- incl. photos

Quality Report										Inspection							
										14-11-03#821195							
Space ID	1		00		170												
Building	Administration building																
Floor	Ground floor																
Door no.	17																
Name	Restroom																
Area, m ²	1.47																
Date/time	12/16/2014 1:54:18 PM																
Result	<div>Rejected</div> <div>INSTA Hyg. Other</div>																
		INSTA 800		Soiling Group 1								Soiling Group 2					
				Waste		Dust		Stains		Total		Agreed level		Surf. soil. %		Agreed level	
				Easy	Hard	Easy	Hard	Easy	Hard	Easy	Hard	Level	level	Easy	Hard	Level	level
Furniture				0	0	1	2	0	2	1	4	3	4	0	0	5	4
Walls				0	0	0	0	0	0	0	0	5	4	0	0	5	4
Floors				0	0	0	0	0	0	0	0	5	4	0	0	5	4
Ceilings					0		1		0		1	5	4		0	5	4
HYGIENE CONTROL										Soilings on Critical Points							
										Human bio mt.		Dust		Waste		Result	
												Easy	Hard	Easy	Hard		
Patient Light										2		0	0	0	0	OK	
Bedside										3		0	0	0	0	OK	
Sink and Faucet										2		0	0	0	0	OK	
Screens										2		0	0	0	0	OK	
Other Sanitary										3		0	1	0	0	Rejected	
Grips										2		0	0	0	0	OK	
Tables										2		0	0	0	0	OK	
Stands										2		0	0	0	0	OK	
Techn. Installations near Patient										2		0	0	0	0	OK	
Other Techn. Installations										2		0	0	0	0	OK	
Comments																	

Used Standards

INSTA 800 E:2010

- Cleaning quality - Measuring system for assessment and rating of cleaning quality

DS 2451-10

- Infection control in the health care sector - Requirements for cleaning

Additional controls

- User-defined additional control point can be set up for the quality control process

INSTA 800 E:2010

Reference standards

- EN13459:2001
 - *Cleaning services - Basic requirements and recommendations for quality measuring systems*
- ISO 2859-1:1999
 - *Sampling procedures for inspection by attributes - Part 1*
- DS 2451-10:2010
 - *Infection control in the health care sector - Part 10: Requirements for cleaning*

INSTA 800 Main Principles

Visual inspection

- 6 quality levels
- 4 object groups
- 4 soiling types
- The size of the spaces determines the number of accumulations of soiling permitted
- Inspection takes place after cleaning, before the space is used

Inspection using measuring instruments

- The instrument measuring methods may work as a supplement for special types of premises used for e.g. the production of electronics, pharmaceuticals or food, or for premises housing laboratories, etc.

INSTA 800 Main Principles

INSTA 800 Cleaning Quality

Measuring system for assessment and rating of cleaning quality

Object groups

- Furniture & fixtures
- Walls
- Floors
- Ceilings

Soiling groups

- Group 1:
- Waste and loose dirt
 - Dust
 - Stains
- Group 2:
- Surface soiling

Accumulation of soiling

Occurrences of the same soiling type within limited areas of 1.5 x 1.5 Ft (0.5 x 0.5 m) on an object group

Permitted accumulations of soiling per object group for different quality levels

		Soiling group 1								Soiling group 2	
Room size		0 - 160 SF		161 - 375 SF		376 - 645 SF		646 - 1075 SF		0 - 1075 SF	
		0 - 15 m ²		16 - 35 m ²		36 - 60 m ²		61 - 100 m ²		0 - 100 m ²	
Quality Level		A	NA	A	NA	A	NA	A	NA	A	NA
5		1	1	1	2	2	4	4	6	0%	0%
4		2	3	3	5	5	6	7	8	10%	10%
3		5	6	6	8	9	12	12	18	25%	25%
2		7	8	8	10	13	15	18	20	50%	50%
1		10		12		18		24		75%	75%
0											

DATA KNOW HOW
CLEANING SYSTEMS

A = Accessible areas NA = Not immediately Accessible areas

Hygiene Control Main Principles

Hygiene inspection

- 5 hygiene levels
- 60 predefined area types
- 3 soiling types
 - Human biological material
 - Dust
 - Waste and stains
- 3 risk grades
- 10 risk points
- Sampling procedure follow INSTA 800 principles

Risc Grades

Critical limits (max. values) for number of errors before rejection of inspected object.

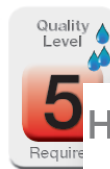
	Human biological material	Dust / Waste and stains	
		Easy accessible	Not easy accessible
1 Risk grade 1	0	Max. 2	
2 Risc grade 2	0	0	Max. 2
3 Risc grade 3	0	0	0

Hygiene Control Main Principles

Hygiene Level 5

Care and treatment areas/regions or production areas with particular demand for cleaning

Hygiene level 5 relates to premises where cleaning primarily must remove / minimize risk of spreading infectious matters through direct or indirect contact.

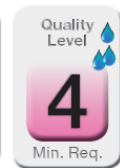
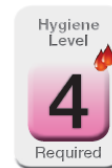


	Human Biological Material	Patient Light Bedside	Sink and Faucet	Screen	Other Sanitary	Grip	Table	Stands	Tech. Inst. near Patients	Other Tech. Inst.
Autoclave Room			2			2	3	2		2
Burns Department	3	3	3	3		3	3	3	3	2
Maternity Ward	3	3	2	3	3	3	3	3	3	2
Intensive Care, at Checkout	3	3	2	3	2	3	3	3	3	2
Sterile Production / Packing Room			2			2	3	2		2
Milk Room			2		3	3	3	3		2
Operating Room	3	3	2			3	3	3	3	2
Neonatal Intensive Care	3	3	2	3		3	3	3	3	2
Sterile Supplies Room			2			3	3			2

Hygiene Level 4

Primarily patient related areas / regions

Hygiene level 4 relates to rooms where cleaning must leave a neat and acceptable general impression and reduce risk of spreading infectious matters through direct or indirect contact.



	Human Biological Material	Patient Light Bedside	Sink and Faucet	Screen	Other Sanitary	Grip	Table	Stands	Tech. Inst. near Patients	Other Tech. Inst.
Department Kitchen			2		3	3	3	3		2
Restroom / Washroom	3	2	3	2	2	3	2	2	2	2
Dialysis Room	3	2	3	2	2	2	2	3	3	1
Corridor, Operating Department						2	2	2		
Isolation Room	3	2	3	2	3	3	3	2	3	1
Laboratory			2		2	2	3	2		2
Surgical Handwashing Room			3			2	3			1
Medicine Room			2			2	3	3		2
Recovery Room	3	2	3	2	2		2	3	3	1
Blood Sampling Room										