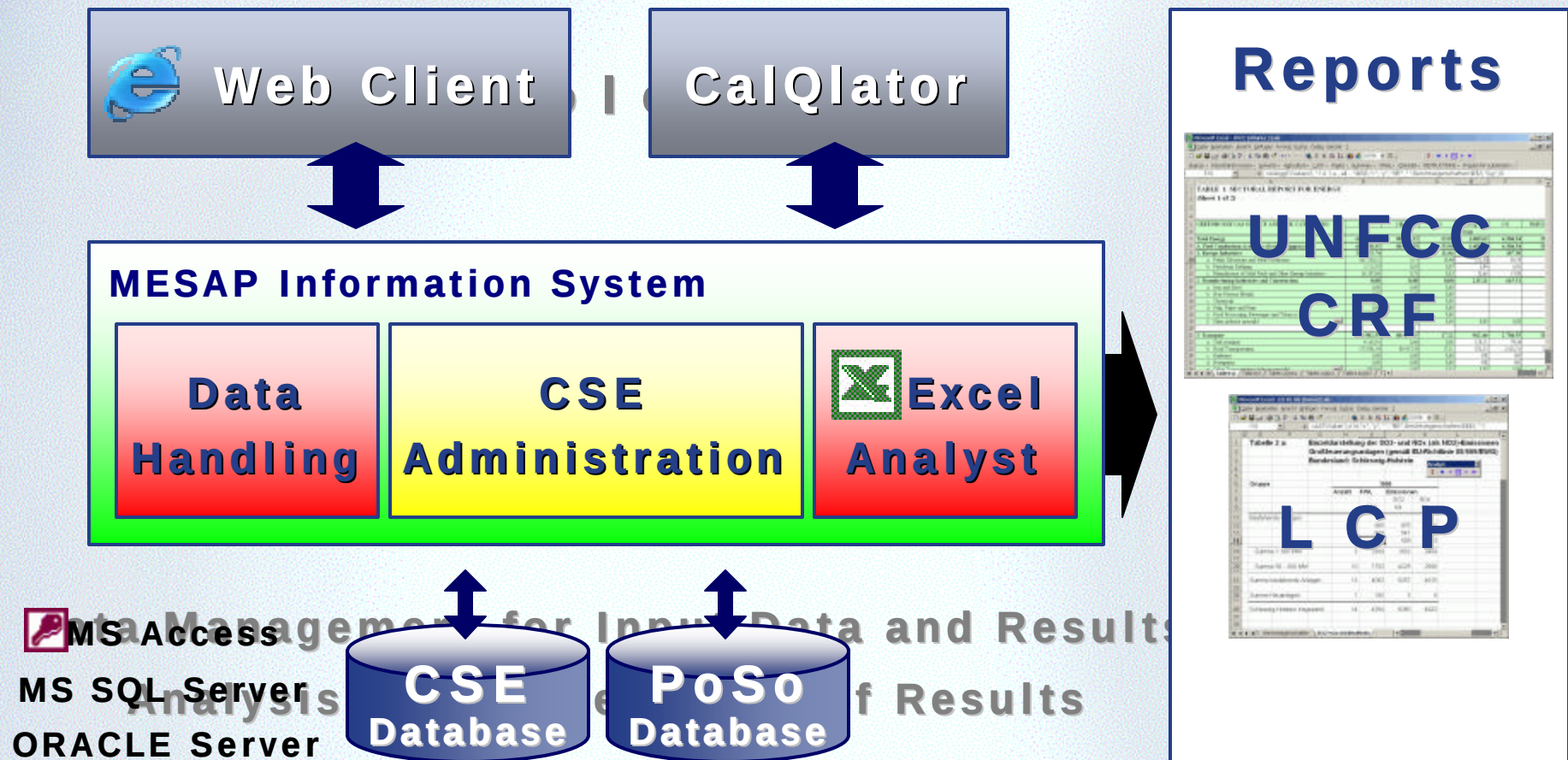




Central System of Emissions CSE

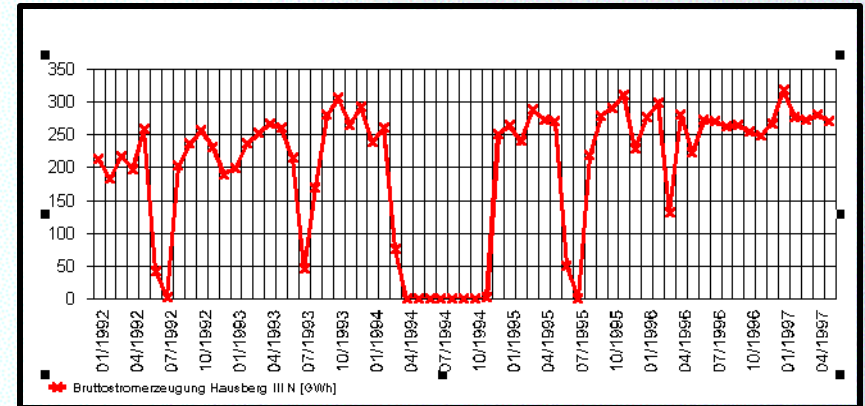
Ulrich Schellmann, Seven2one Inc.

The CSE-MESAP Solution



Time Series Object

**Annual CO2 Emission
of Passenger Cars
in Urban Driving Sector for
the City Berlin in Germany
in Gtons**



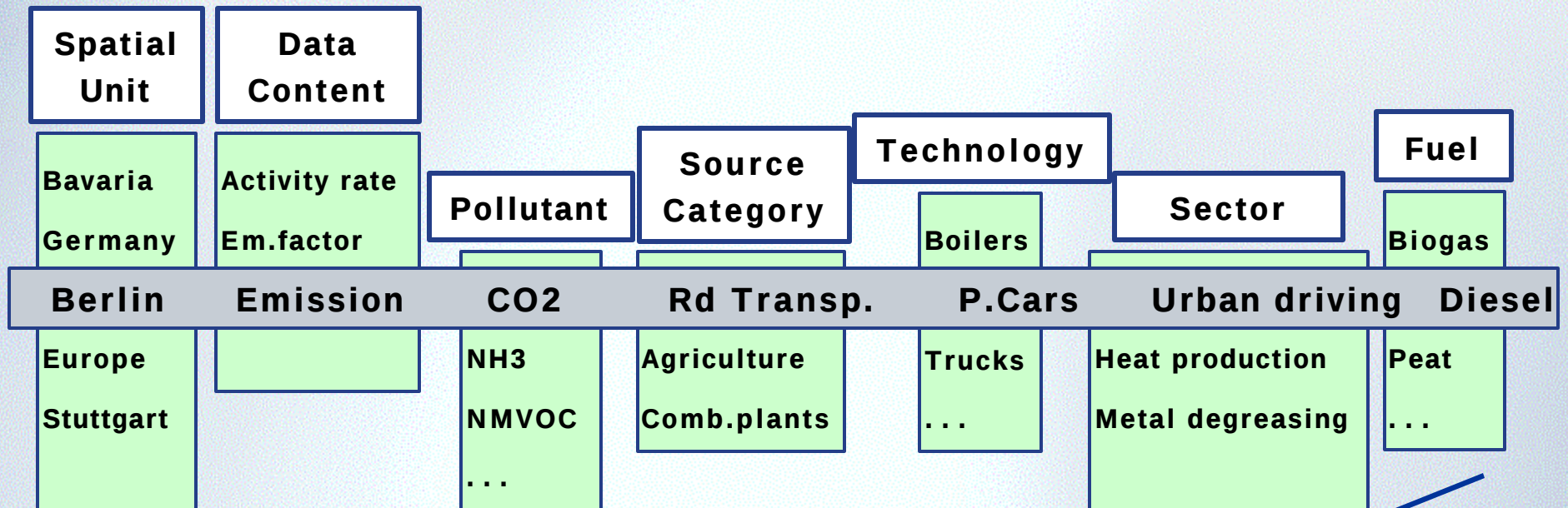
								1996	1997	1998
Berlin	Emission	CO2	Pass. Cars	Diesel	Gt	a	REF	56,673	62,829	60,821

**Multi-dimensional
Time Series Key**

Specs

Data Values

Multi-dimensional Key



1996

Berlin	Emission	CO2	Pass. Cars	Diesel	Gt	a	REF	56,673
--------	----------	-----	------------	--------	----	---	-----	--------

Data Values

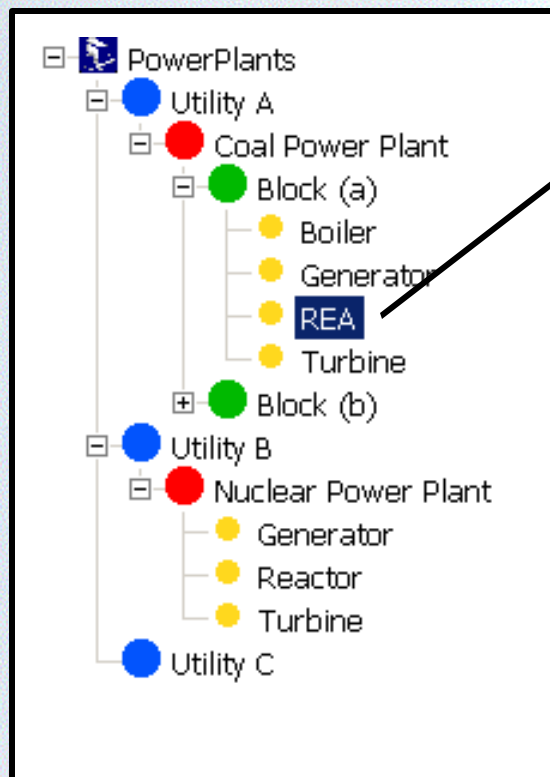
Unit	T.Res.	Hypo	1996	1996	1998	2002
Gt	year	REF	6,673.98	2,829.65	3,653.21	-, -

Unit	T.Res.	Hypo	Jan	Feb	...	Dec
Gt	month	REF	489.32	502.56	...	521.87

								1996	1997	1998
Berlin	Emission	CO2	Pass. Cars	Diesel	Gt	a	REF	6,673	2,829	3,653

Master Data

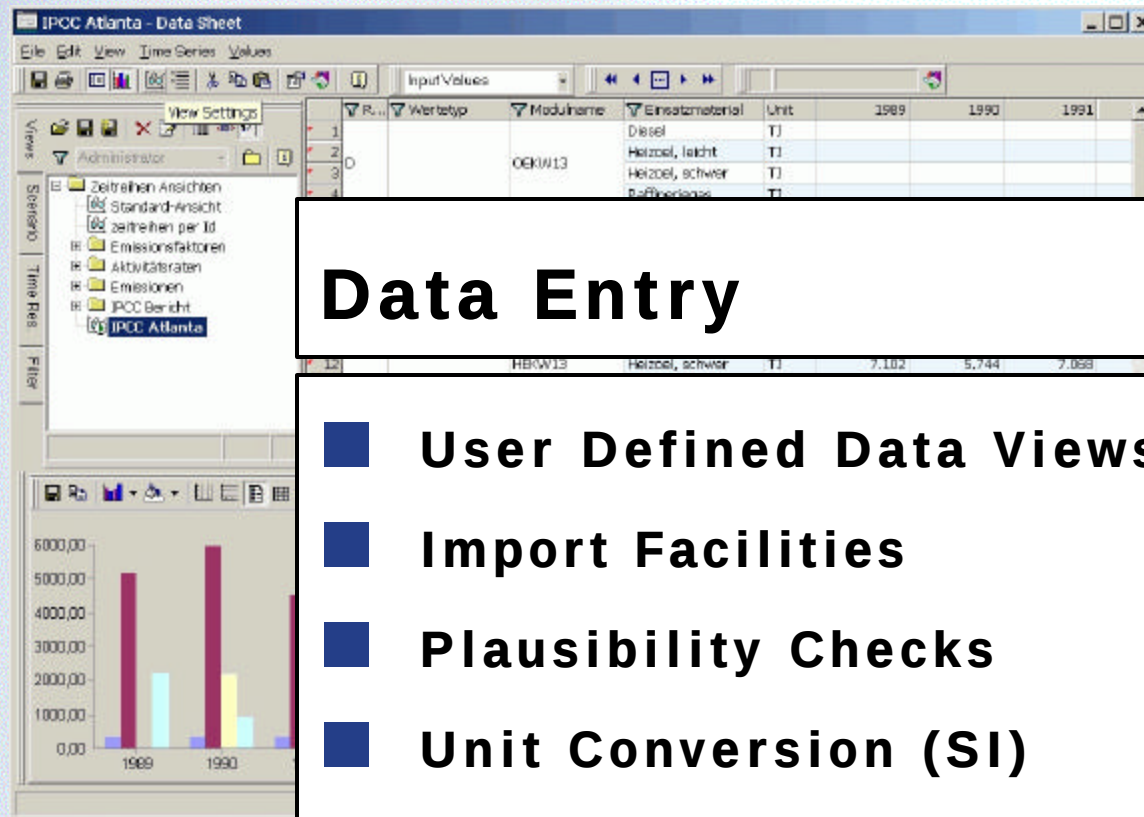
Navigation Tree



Master Data Form

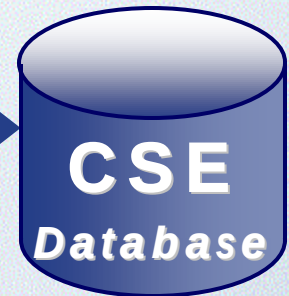
[-] Identdata	
Name of Unit	
▼ Localization of Unit	Berlin
▼ Owner	E.ON AG EnBW
▼ Type of Unit	Thermal
▼ EURELECTRIC Classification	Monovalent Lignite
▼ Fuel	Coal
[-] Technical Data	
Comissioning Year	01.05.1983
Decomissioning Year	
Lifetime	45
Gross Power (MW)	
Gross Power (TS)	865 MW (1998)
Betriebsarbeit	#Kein Wert#
Efficiency	39,7 % (1998)
Combined Cycle	Ja
Combined Heat&Power	Ja

Workflow in CSE

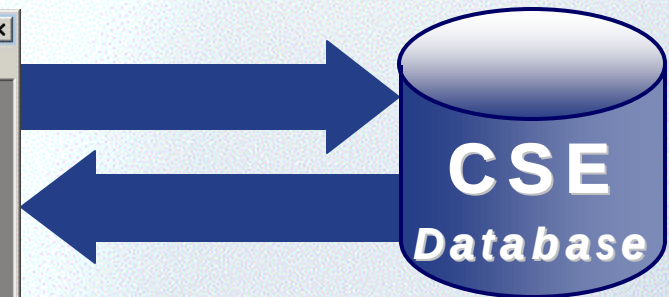
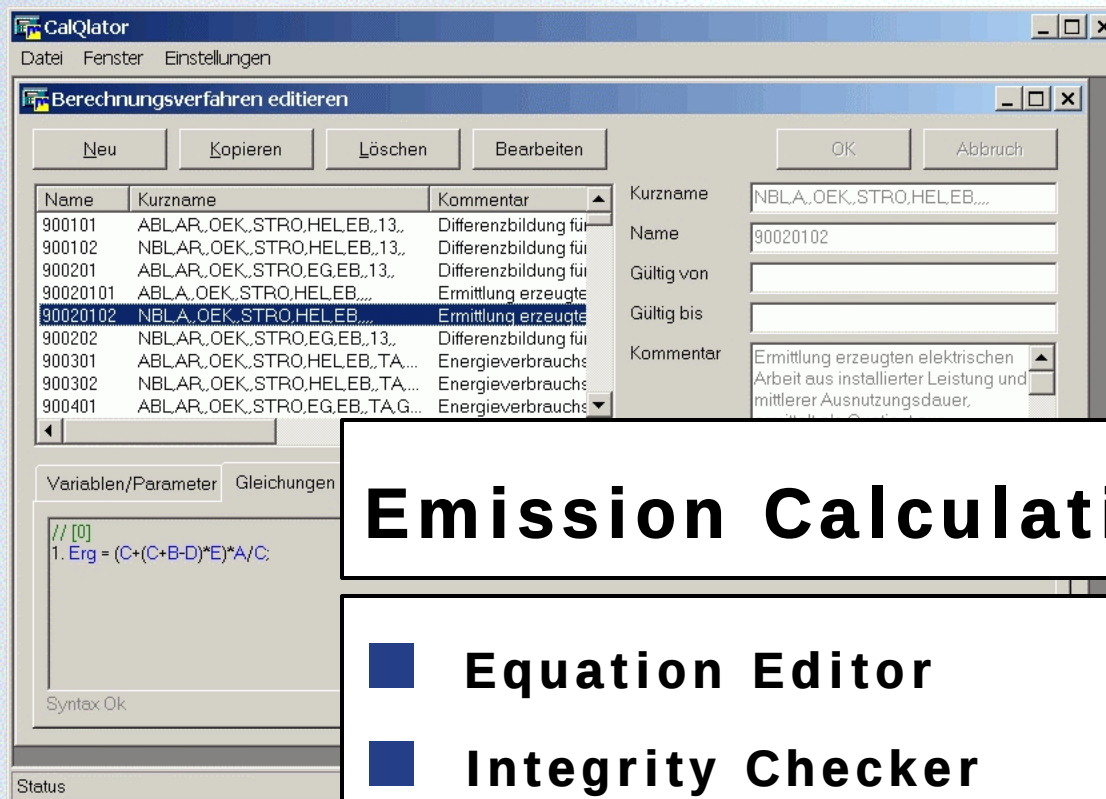


Data Entry

- User Defined Data Views
- Import Facilities
- Plausibility Checks
- Unit Conversion (SI)
- Currency Exchange Rates
- Documentation

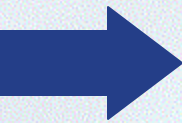


Workflow in CSE



Emission Calculation

- Equation Editor
- Integrity Checker
- Solver



Microsoft Excel - IPCC (Atlanta 2).xls

File Edit Format Extras Daten Fenster ?

Energy Industrial Processes Solvents Agriculture LUCF Waste Summary Other Checklist INSTRUCTIONS Prepare for submission

E10 =A4AggTSValues(1;"1 A 1 a - all - "&E\$5;"r";"y";"REF";";Berichtseigenschaften!\$E\$3;"Gg";0)

	A	B	C	D	E	F	G
1	TABLE 1 SECTORAL REPORT FOR ENERGY						
2	(Sheet 1 of 2)						
3							

update Report

	NO _x	CO	NMVO
(Gg)			
33,96	1.609,63	4.304,54	35
33,96	1.609,63	4.304,54	35
11,86	247,17	107,30	
10,96	211,58	89,39	
0,07	2,94	0,92	
0,83	32,66	17,00	
0,00	215,21	615,51	
0,00			
0,00			
0,00			
0,00			
0,00			
0,00	0,00	0,00	
17,22	962,44	2.704,55	30
0,08	129,11	79,24	
17,11	833,33	2.625,31	2
0,00	NE	NE	
0,00	NE	NE	
0,00	0,00	0,00	

MS Excel Environment

Hot-Links to Database

Shift Inventory Year

MESAP Unit Handling

Update Report

- MS Excel Environment
- Hot-Links to Database
- Shift Inventory Year
- MESAP Unit Handling
- Preparation for Submission

Advantages of CSE/MESAP

- **lower cost:** standardized software
- **higher consistency:** single relational DB
- **faster reporting:** Excel reports with Hot-links
- **higher quality:**
 - extensive documentation
 - automated processing
- **secure data:** access rights management
- **expandable:** modular, flexible design
- **scalable:** client/server architecture

➔ **Flexibility** without programming

**Thank you
for your attention!**

***Demonstration of the Software
at Poster Presentation
today 6:00 pm – 8:00 pm***