

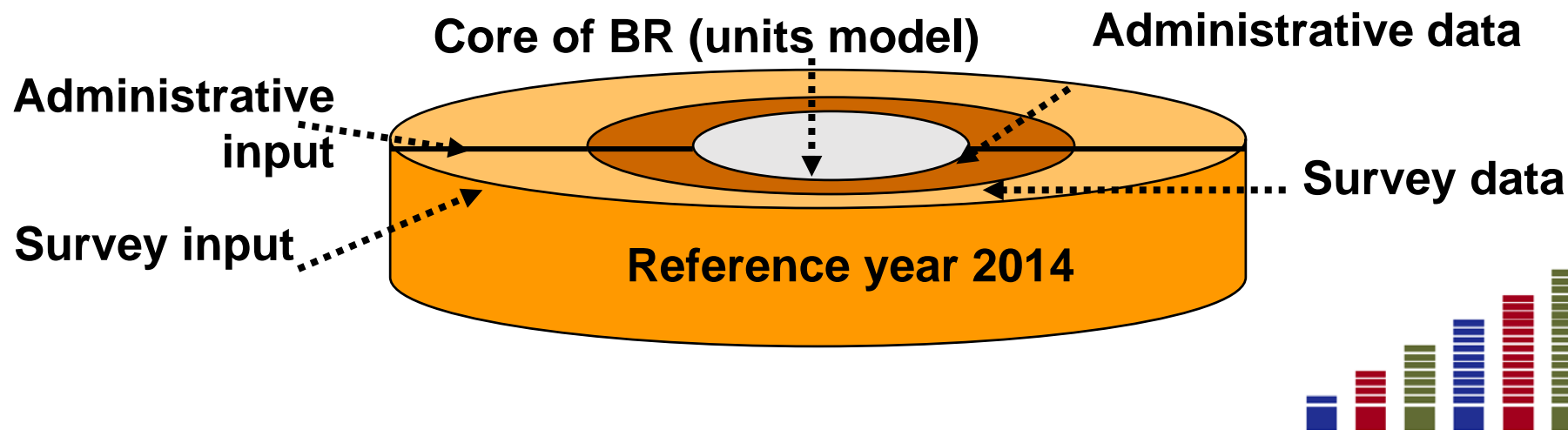
# Dated – undated – outdated: Time Stamps and Reference Dates in Business Register Data

European Conference on Quality in Official Statistics  
Session 10 - Business Register

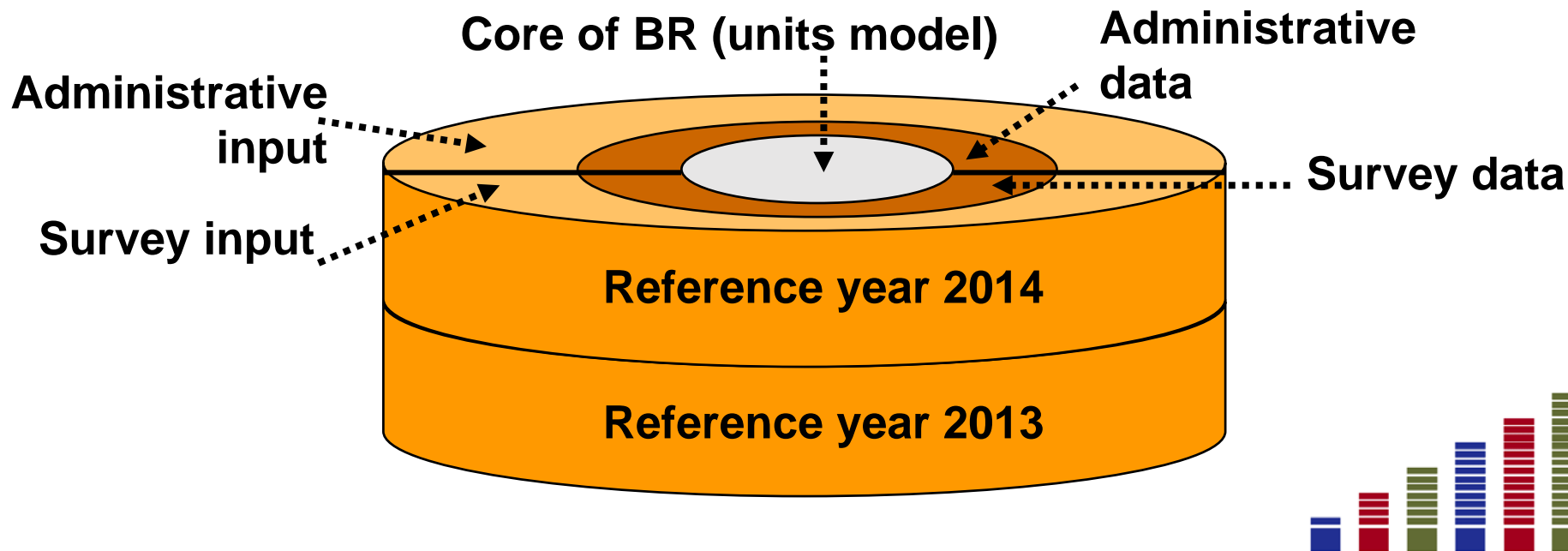
Roland Sturm

Federal Statistical Office Germany,  
Destatis

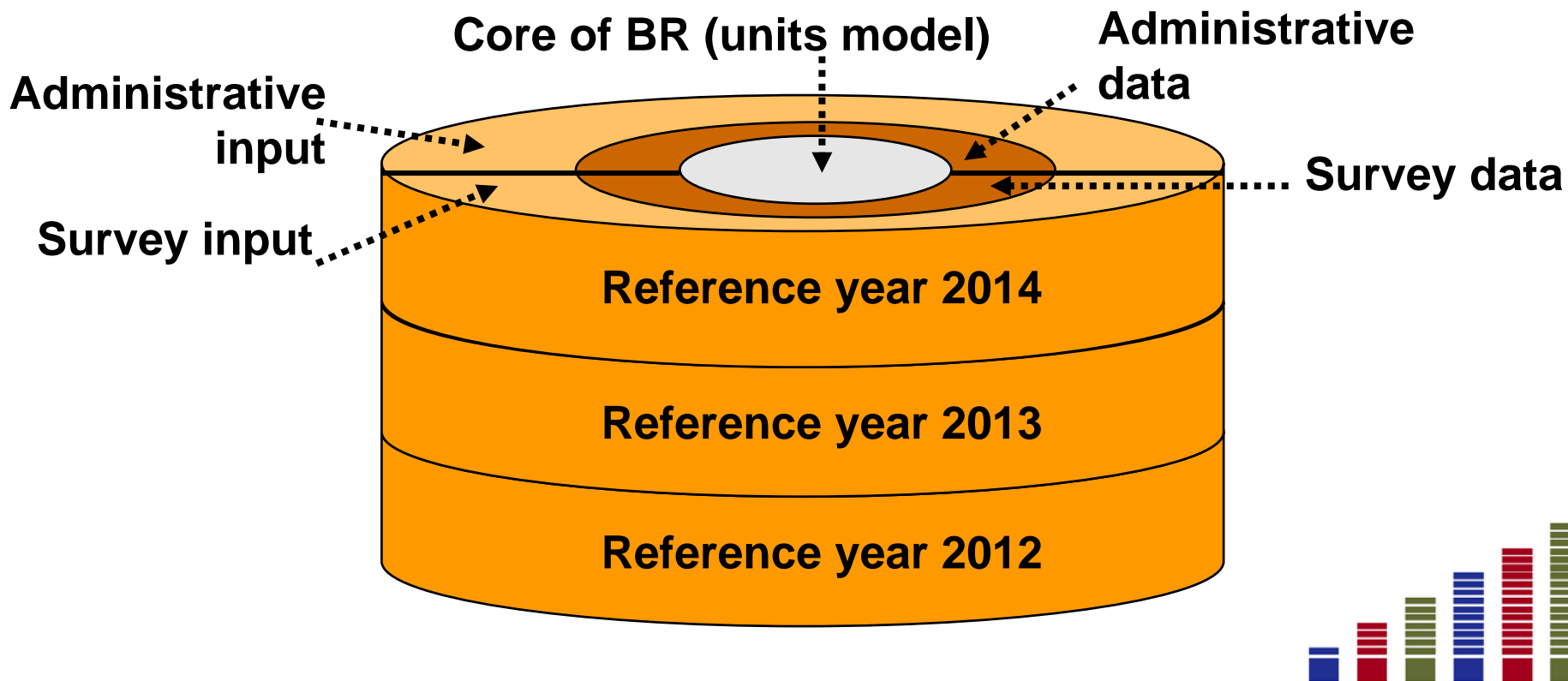
# The Business Register: a compilation of multi-source information



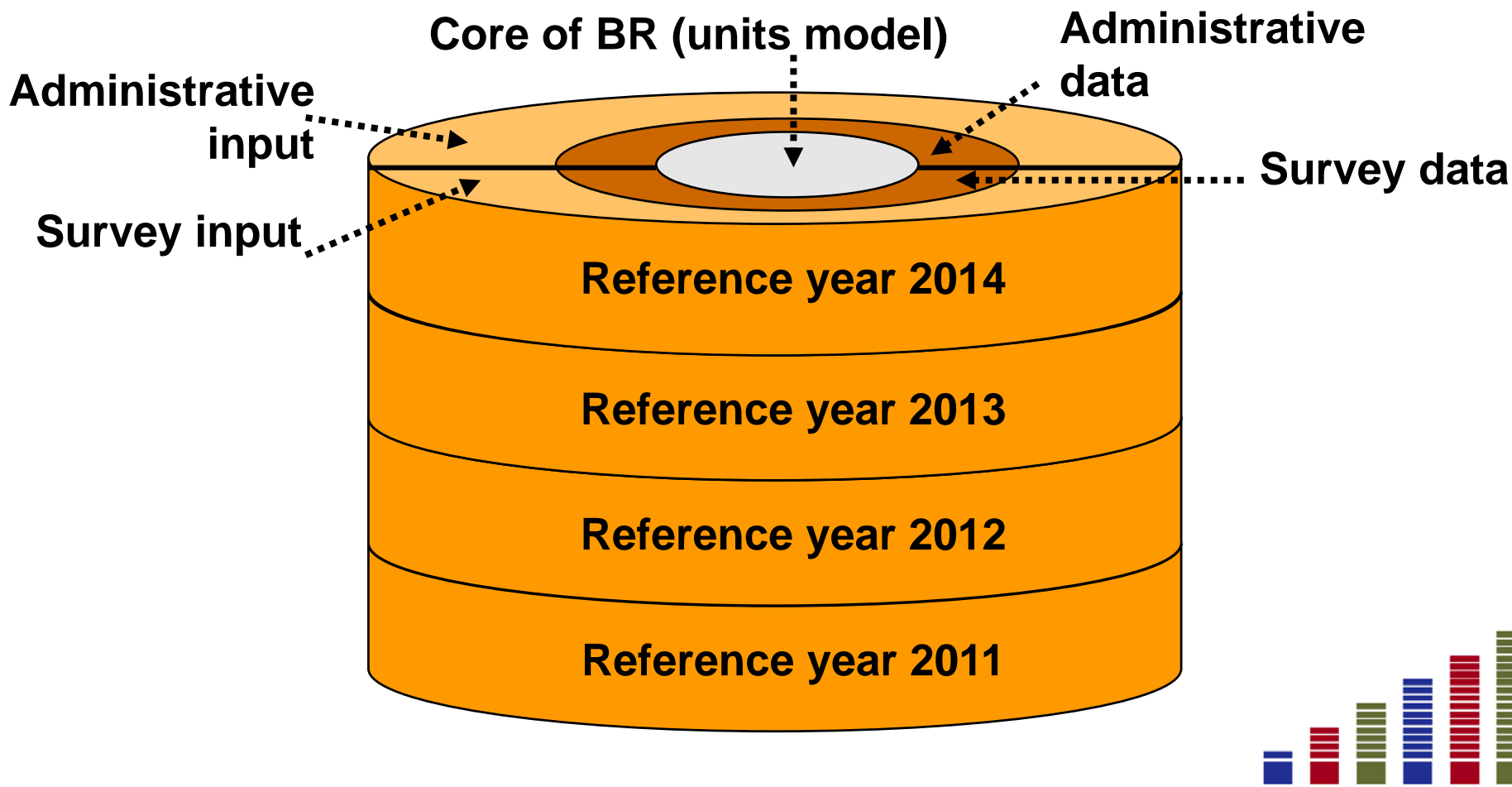
# The Business Register: a compilation of multi-source information



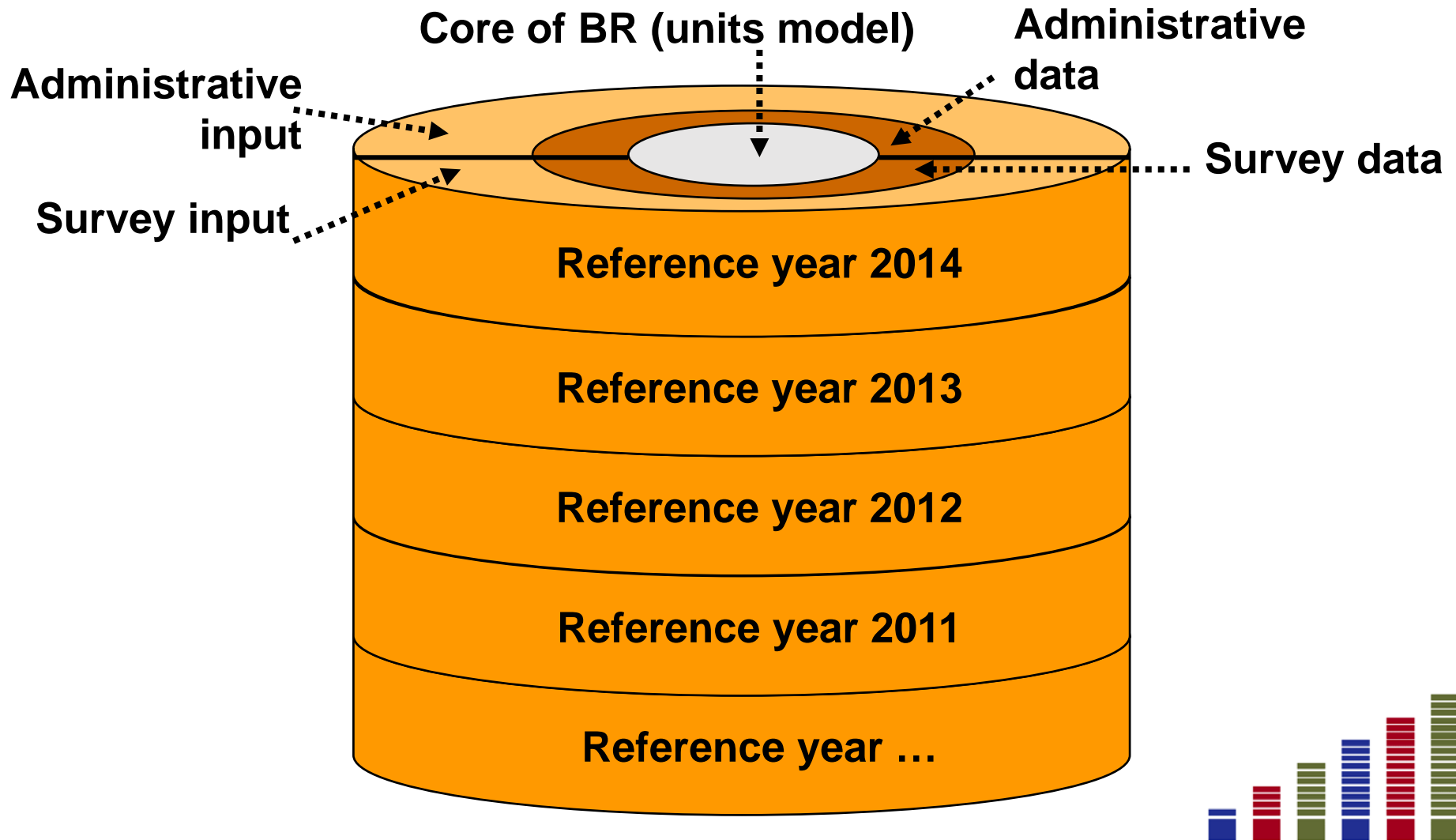
# The Business Register: a compilation of multi-source information



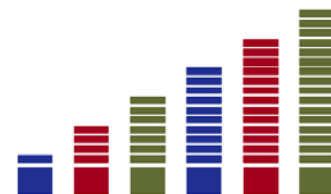
# The Business Register: a compilation of multi-source information



# The Business Register: a compilation of multi-source information



# Illustration 1: Annual BR „snapshot“-copy



## 2014 frame at different points in time for the purpose of Article 8

Examples for the updating of enterprise information		...	2014	2015					...
			Dec	Jan	Feb	Mar	Apr	May	
Member State 1	Legal status	...	Active	Active	Active	Active	Active	Active	...
	Reference date	...	30 11 2014	31 12 2014	31 1 2015	28 2 2015	31 3 2015	30 4 2015	...
	Turnover	...	100 €	100 €	100 €	80 €	80 €	80 €	...
	Reference date	...	2013	2013	2013	2014	2014	2014	...
	Employees	...	10	11	11	10	10	10	...
	Reference date	...	30 11 2014	31 12 2014	31 1 2015	28 2 2015	31 3 2015	30 4 2015	...
...									
Member State 2	Legal status	...	Active	Active	Active	Active	Active	Active	...
	Reference date	...	31 12 2013	31 12 2013	31 12 2013	31 12 2014	31 12 2014	31 12 2014	...
	Turnover	...	100 €	100 €	100 €	100 €	100 €	100 €	...
	Reference date	...	2013	2013	2013	2013	2013	2013	...
	Employees	...	15	15	15	12	12	12	...
	Reference date	...	2013 average	2013 average	2013 average	2014 average	2014 average	2014 average	...
...									
Member State 3	Legal status	...	Active	Active	Active	Active	Active	Active	...
	Reference date	...	31 12 2012	31 12 2012	31 12 2012	31 12 2013	31 12 2013	31 12 2013	...
	Turnover	...	150 €	150 €	150 €	150 €	100 €	100 €	...
	Reference date	...	2012	2012	2012	2012	2013	2013	...
	Employees	...	18	18	18	15	15	15	...
	Reference date	...	2012 average	2012 average	2012 average	2013 average	2013 average	2013 average	...

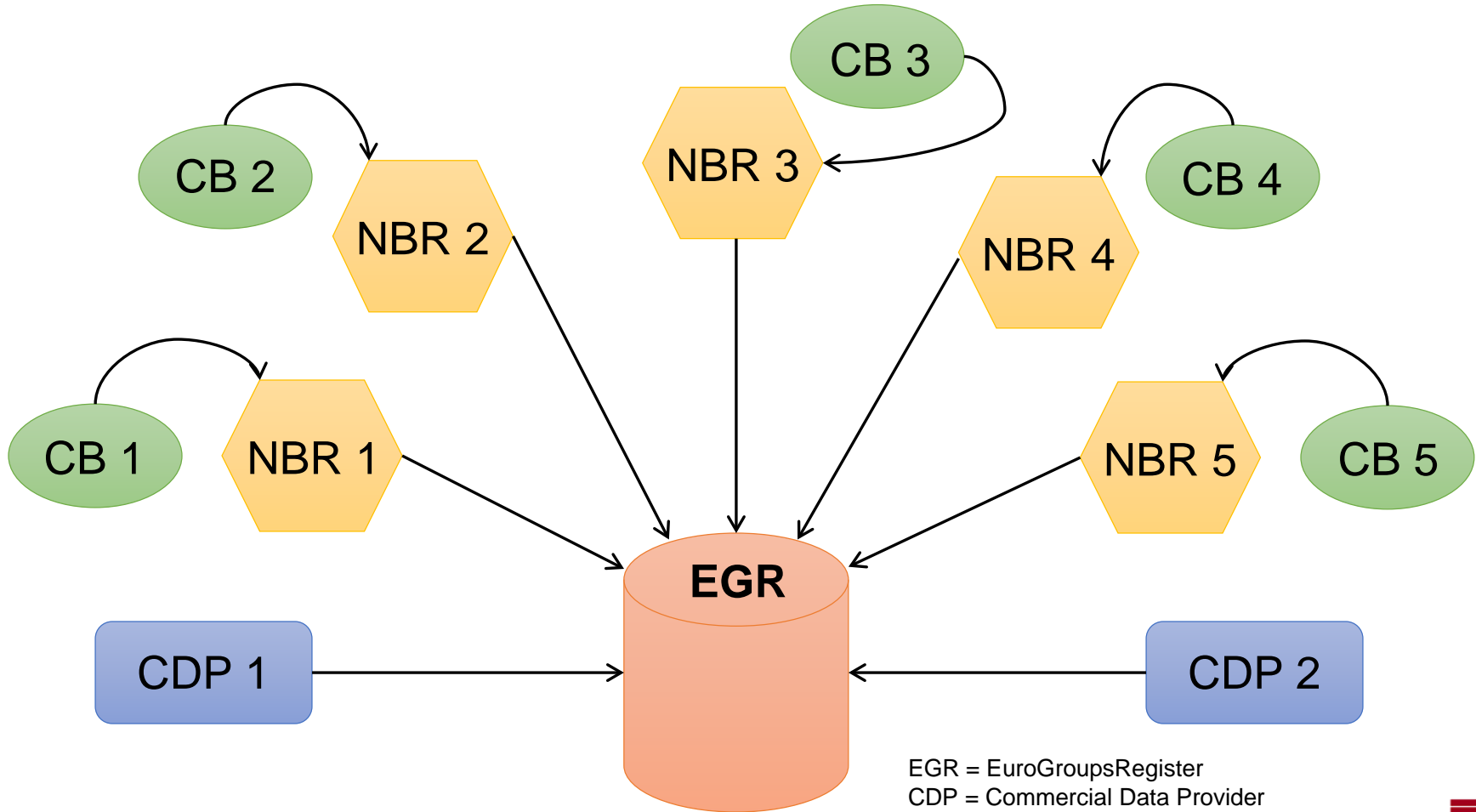


Legend	
Content in red	Information of a characteristic is updated
Content highlighted green	Info. of characteristics for Art.8 purposes
Content highlighted yellow	2014 info. of a characteristic is final

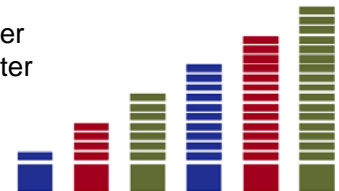




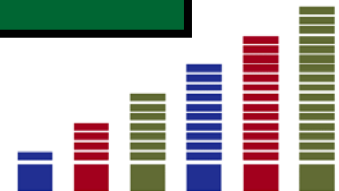
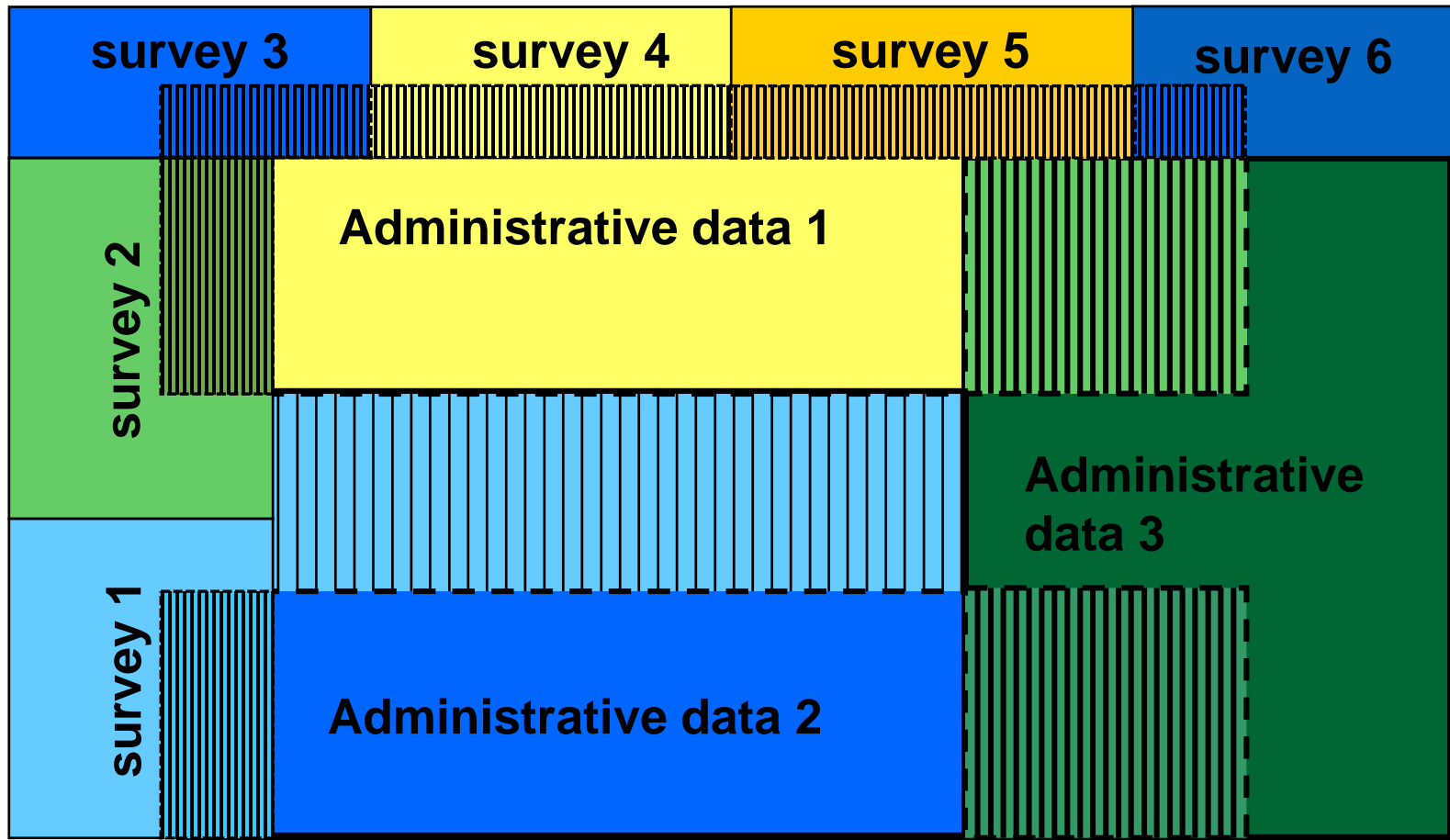
# Illustration 2: EGR from 64 sources



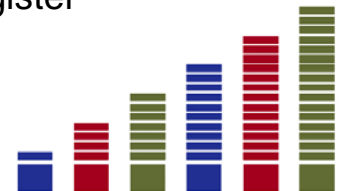
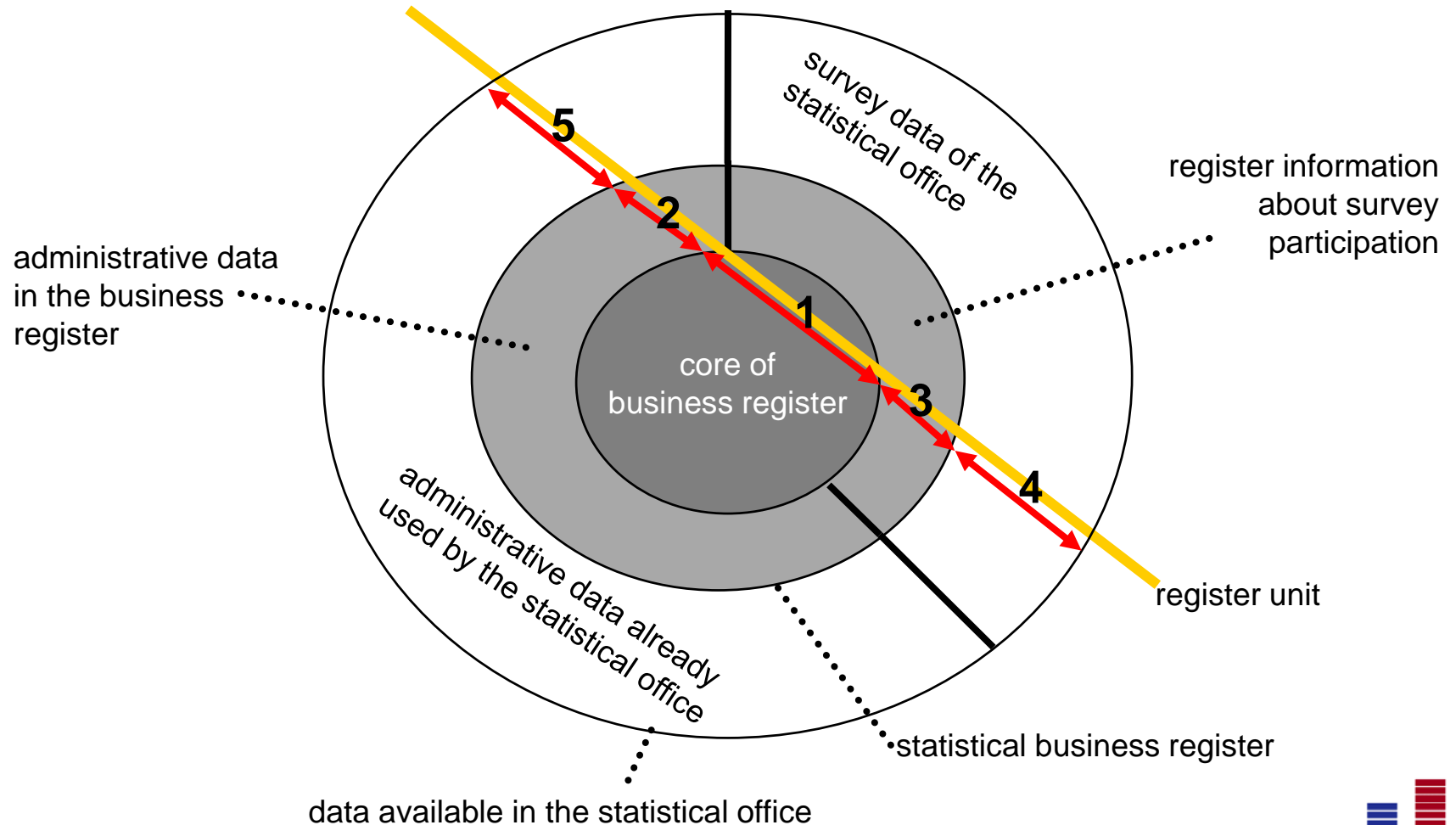
EGR = EuroGroupsRegister  
CDP = Commercial Data Provider  
NBR = National Business Register  
CB = Central Bank



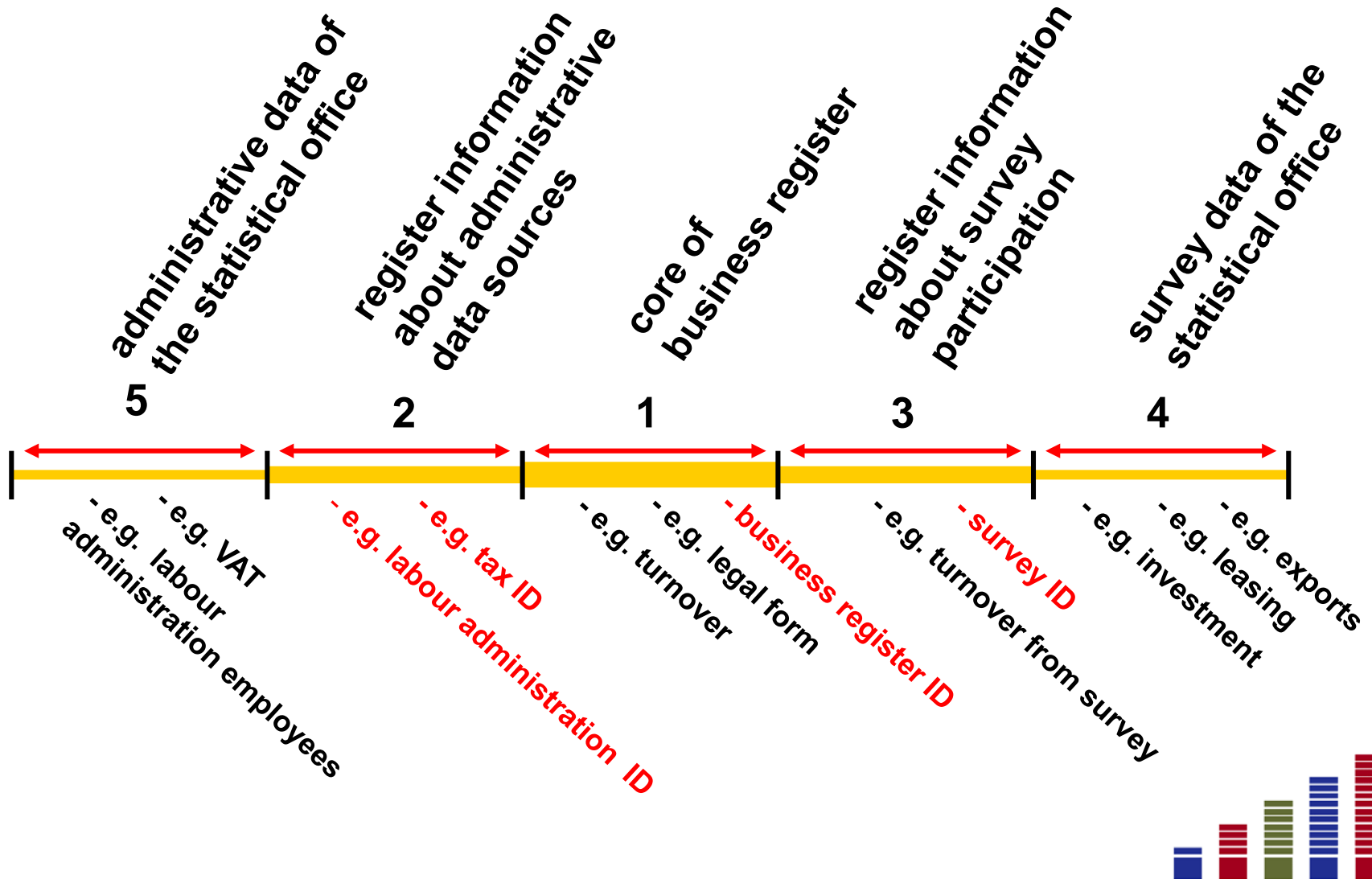
# Data sources for the BR

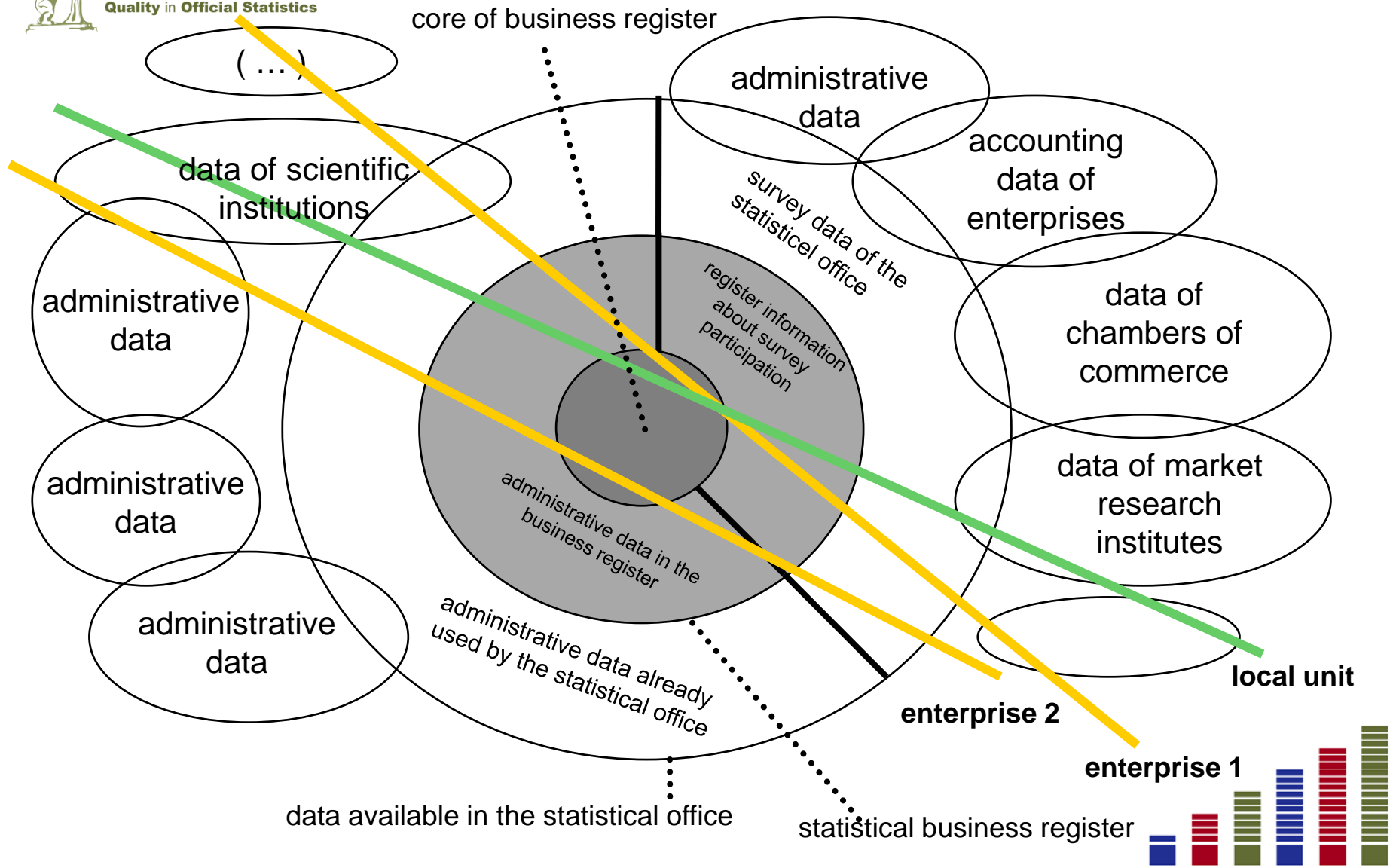


# The statistical business register as backbone for data combination



# Data combination for units in the Business Register





# Feeding the Business Register

## administrative data sources

tax

ADMIN - ID	URS ID
1	
2	
...	

BA

ADMIN - ID	URS ID
1	
2	
...	

IHK

ADMIN - ID	URS ID
1	
2	
...	

## core of business register

enterprise  
enterprise X

URS ID
1
2
...

local unit  
local unit Y

URS ID
1
2
...

enterprise  
enterprise group Z

URS ID
1
2
...

## survey data sources

survey 1  
enterprise X

URS ID
1
2
...

survey 2  
enterprise group Z

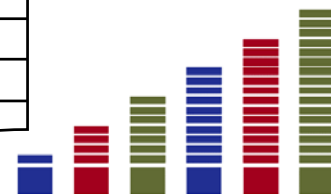
URS ID
1
2
...

survey 3  
local unit Y

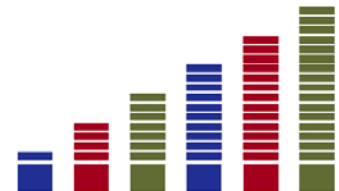
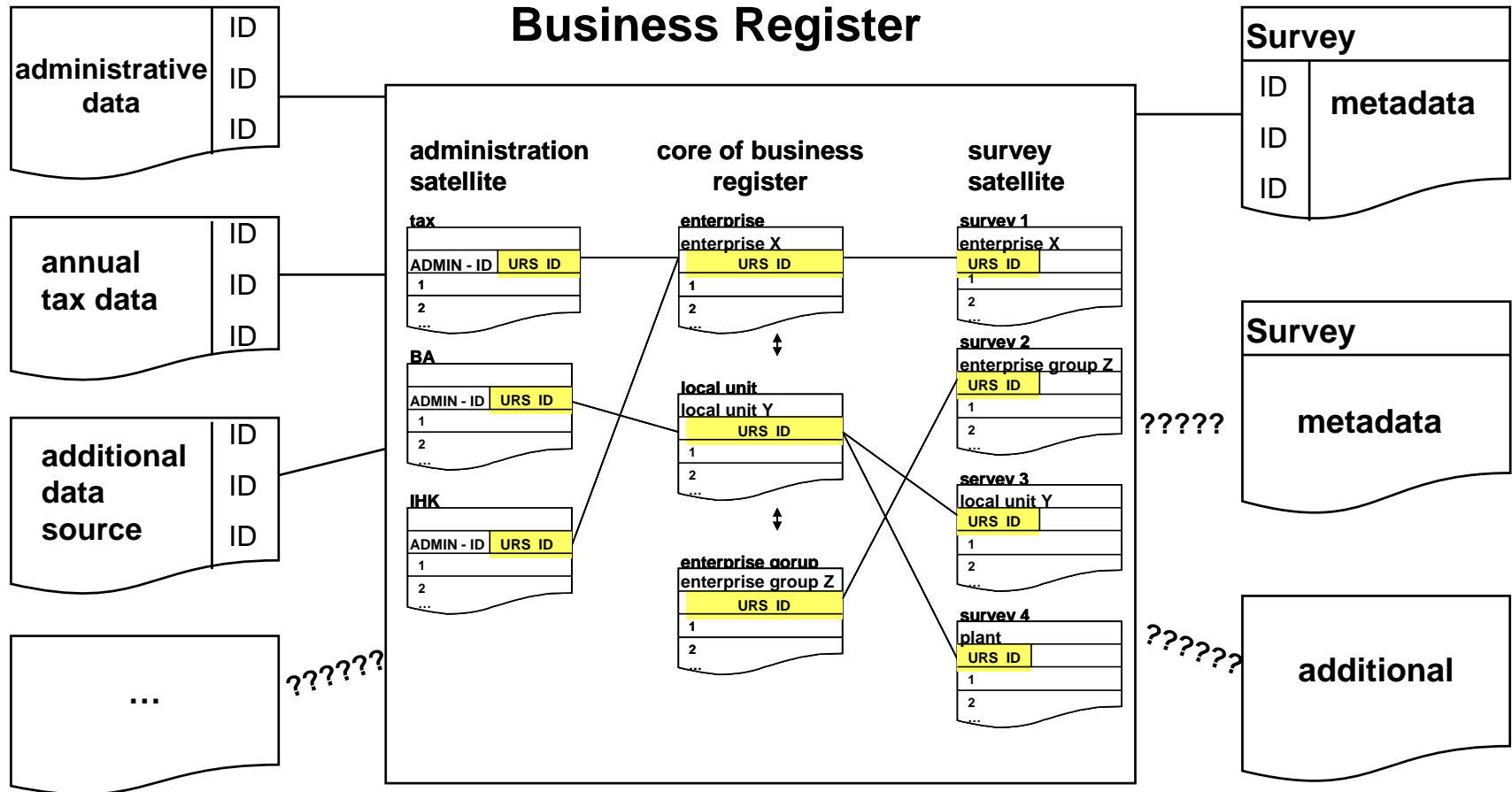
URS ID
1
2
...

survey 4  
plant

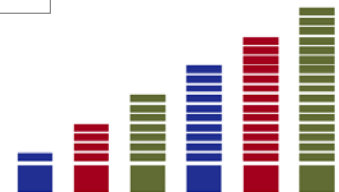
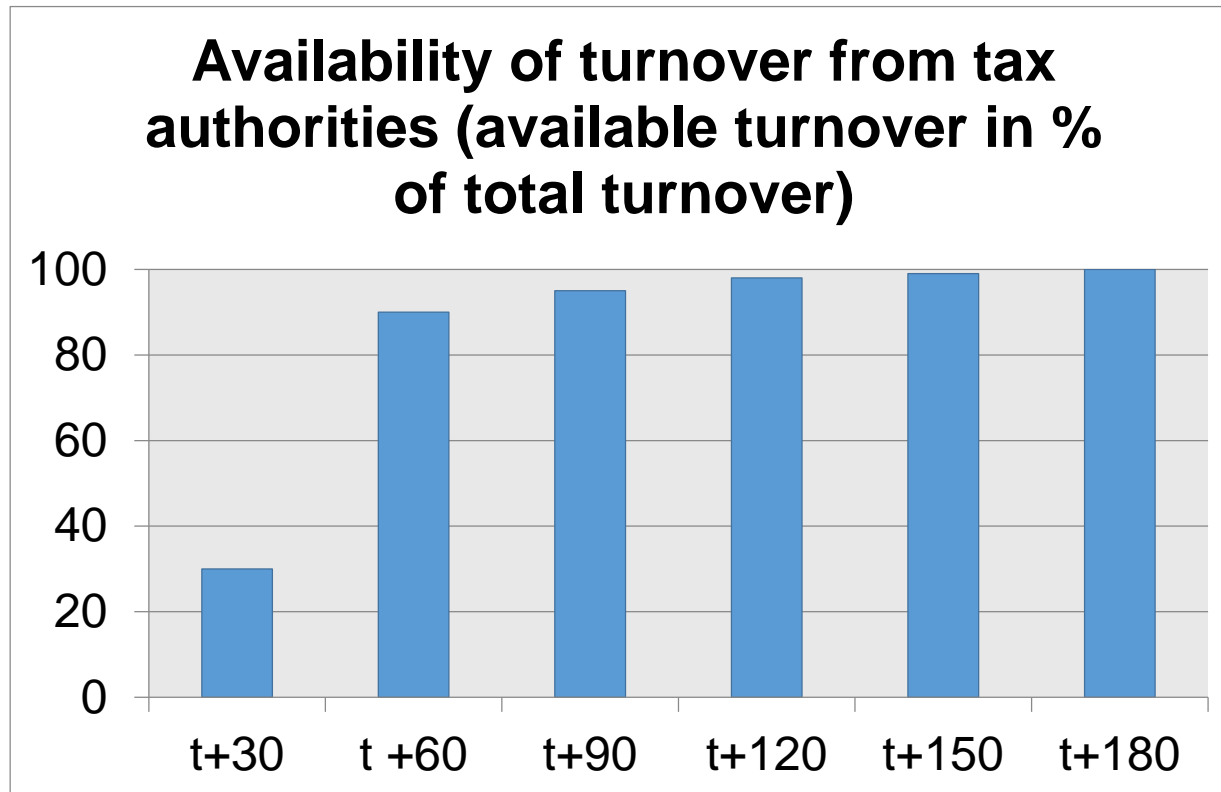
URS ID
1
2
...



# Feeding the Business Register

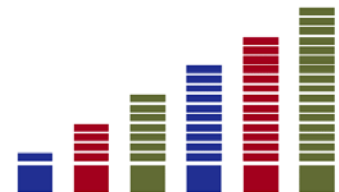
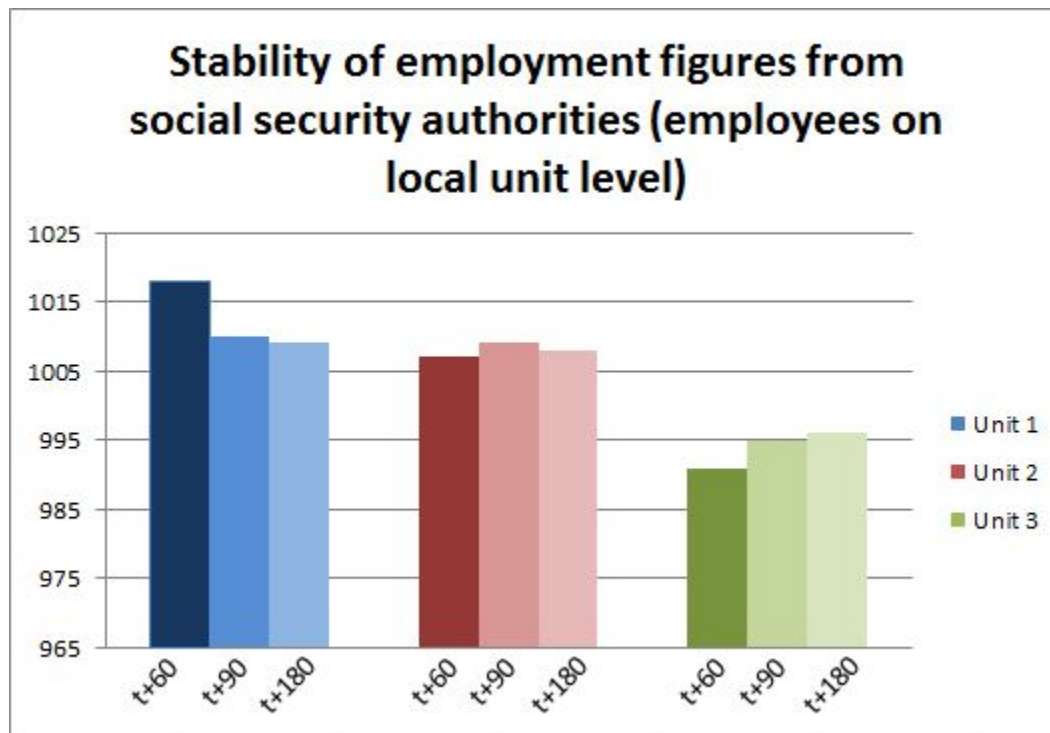


# Making proper use of sources for the Business Register

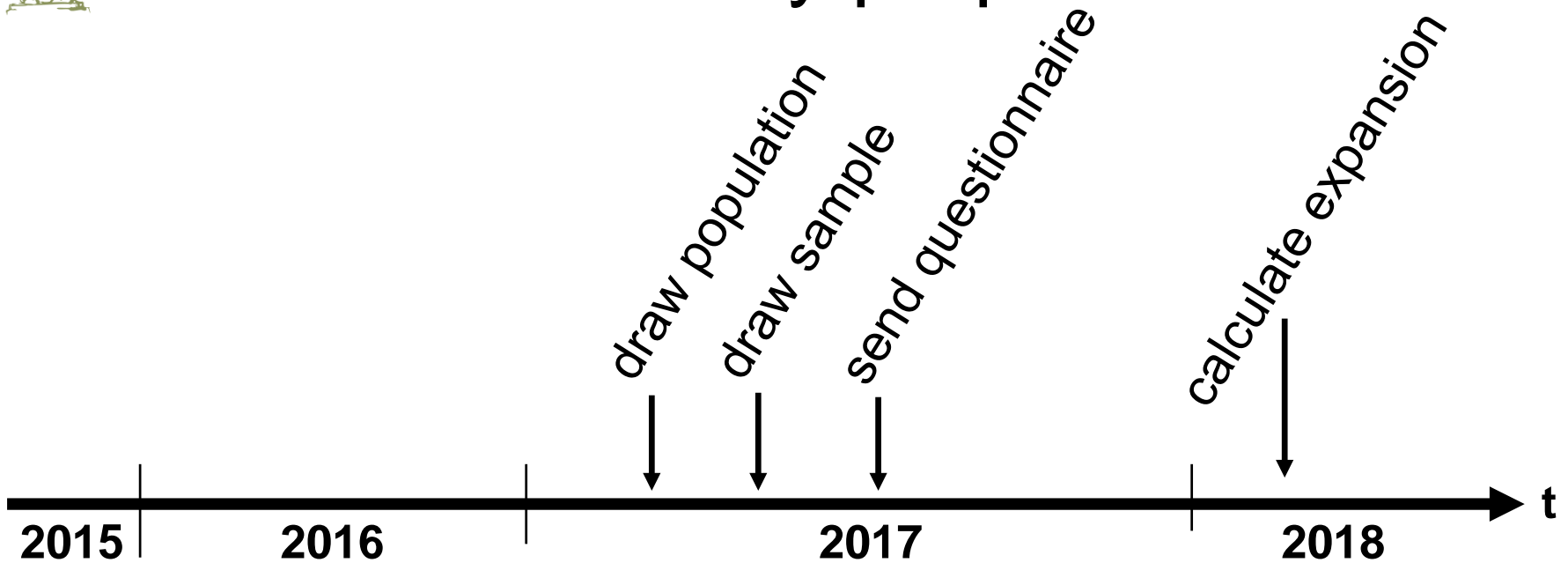




# Making proper use of sources for the Business Register



# Use of the Business Register for survey purposes



Permanent updates of addresses, survey information

monthly data 2016 (turnover, empl)

annual data 2016

monthly data 2017



# Conclusion

## The Business Register should:

- - provide information on validity time
- - disaggregate time references by variable
- - illustrate the register maintenance process by technical time references

## Users should be aware:

- - snapshots mix time references
- - snapshots are not proper for economic analysis
- - frozen copies (frame for a reference year) need time

