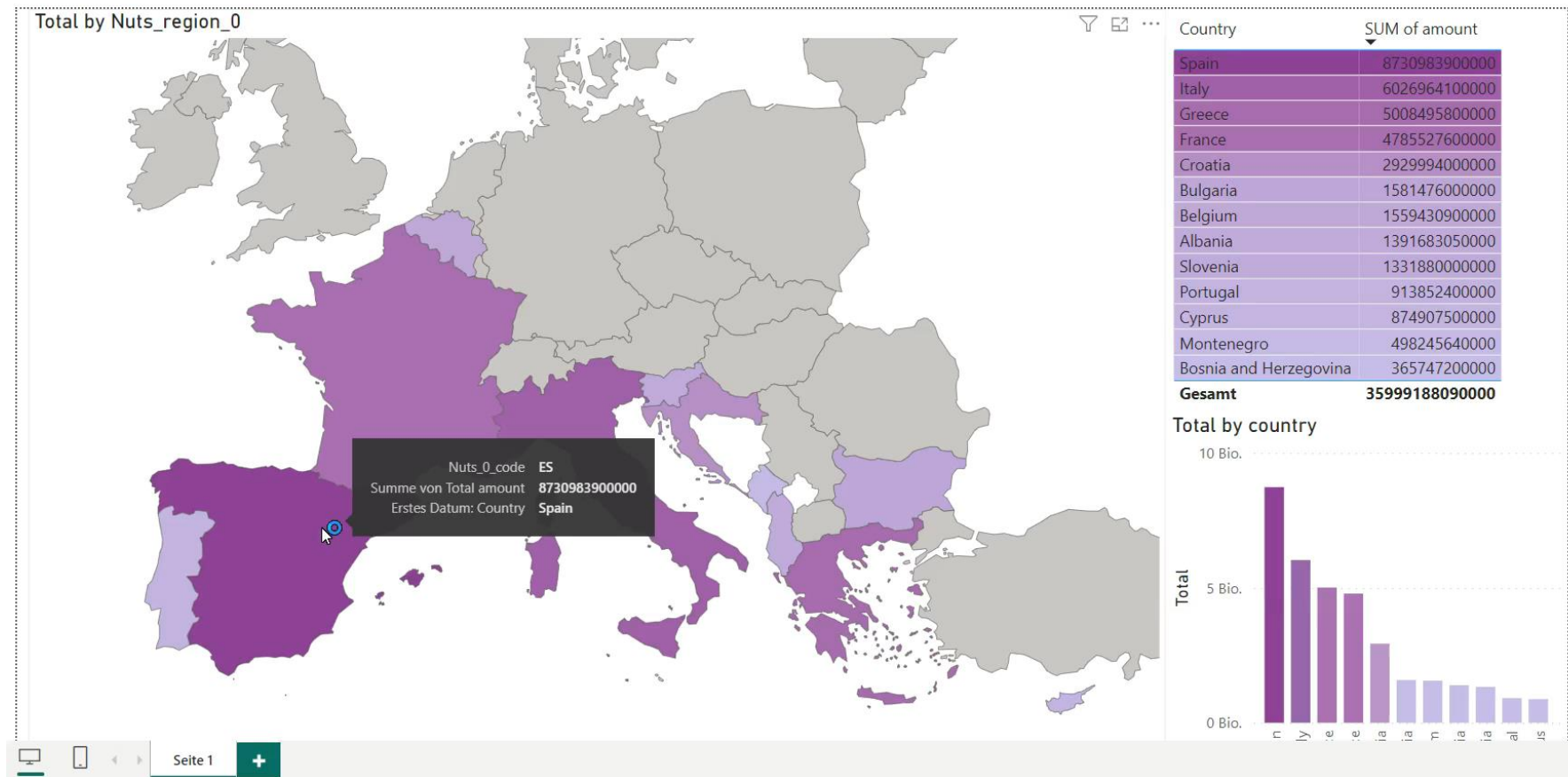


# Jems – Business Intelligence

## Provision and use of analytical information



# Jems – Business Intelligence

Different types of systems to support programme implementation

**BI-System** – Provision and use of analytical information

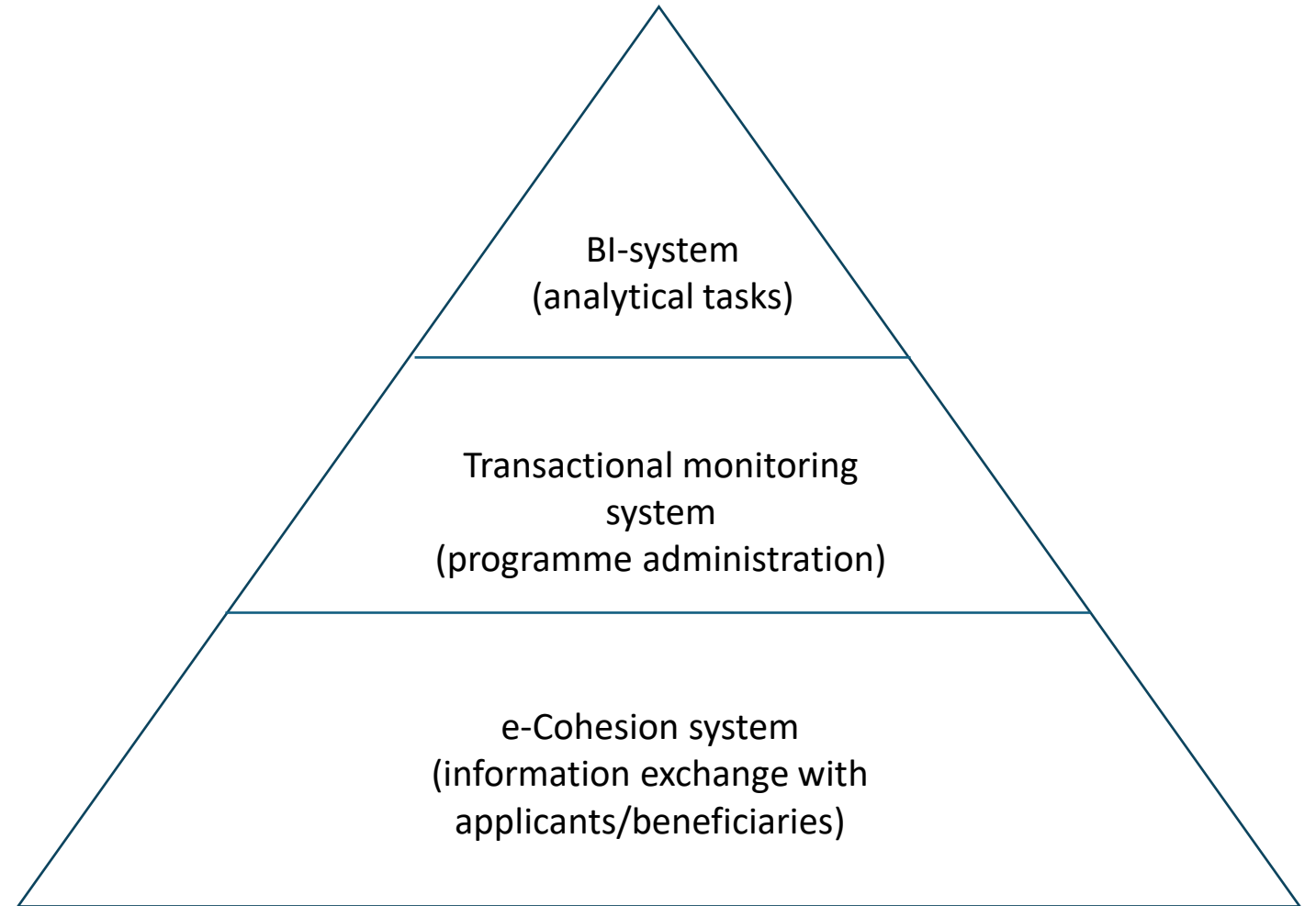
- Back-Office-Application
- Analysis and Reporting

**Transactional monitoring system**

- Back-Office-Application
- Transactions

**e-Cohesion**

- Front-Office-Application
- Transactions



# Jems – Business Intelligence

## Use



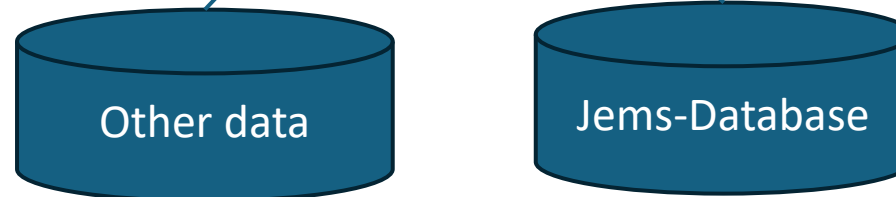
Frontend-Tools such as Excel,  
Power-BI, Apache Superset, etc.

## Provision



Data Mart / Data Warehouse  
versioned  
de-normalised/multidimensional

ETL (Extraction, Transformation,  
Loading)

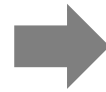
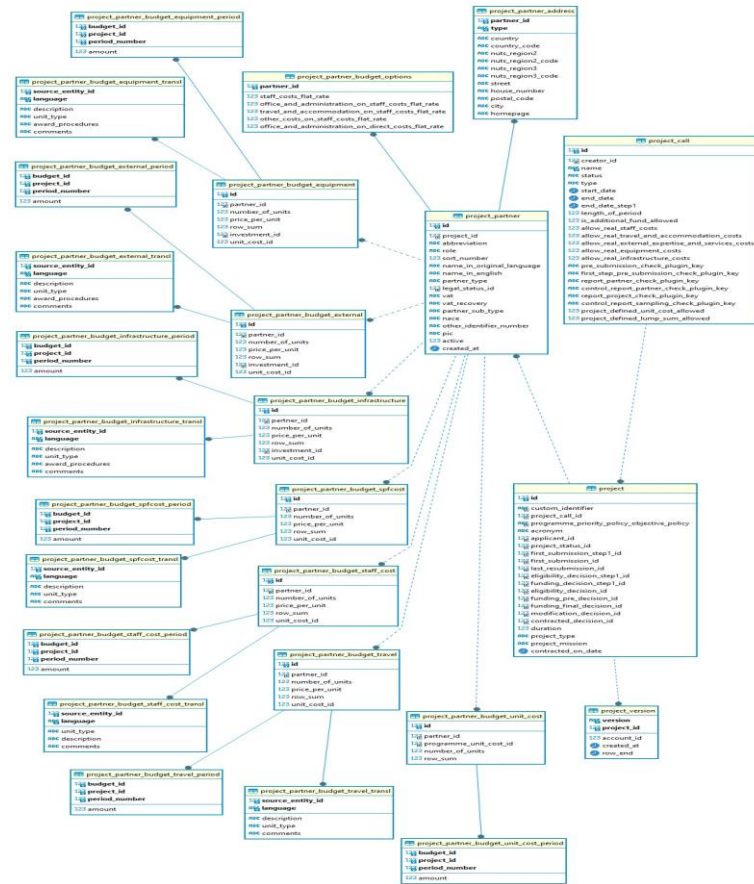


SQL and/or API

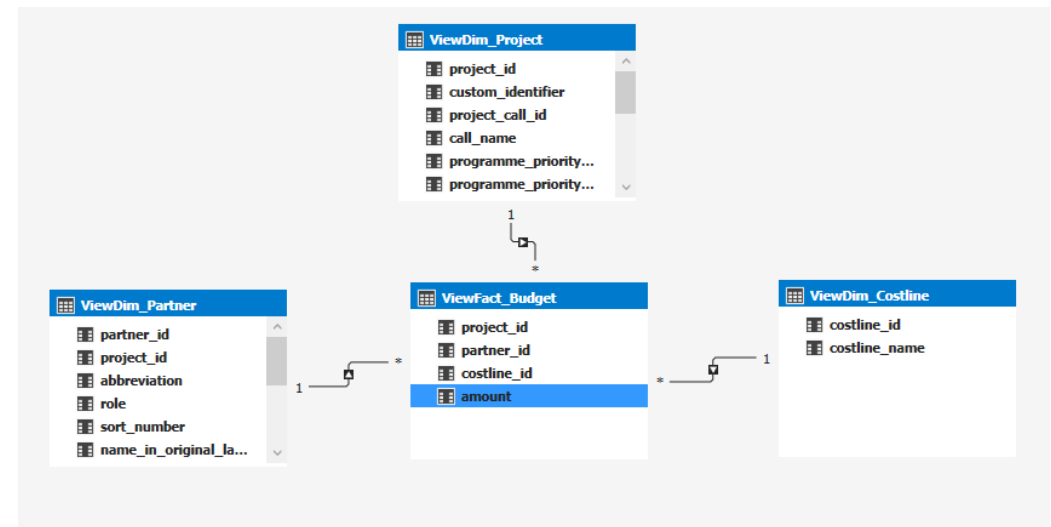
Source System  
(Jems: de-versioned)  
normalised/relational

# Jems – Business Intelligence data provision

Jems database (extract)



Analysis database (extract)



# Jems – Business Intelligence

## data provision / Challenges

### I: versioning

- project\_associated\_organization\_address
- project\_associated\_organization\_contact
- project\_associated\_organization\_transl

transformation

- project\_associated\_organization\_address\_v
- project\_associated\_organization\_contact\_v
- project\_associated\_organization\_v

id	partner_type	version
54	InternationalOrganisationEeig	1.0
54	InterestGroups	2.0

### II: calculation

office_and_administration_on_staff_costs_flat_rate	travel_and_accommodation_on_staff_costs_flat_rate
15	15
15	15
15	15

transformation

	costline_name	amount
1	travel	63519.000000
2	office_administration	63519.000000
3	travel	68250.000000
4	office_administration	68250.000000
5	travel	64500.000000

# Jems – Business Intelligence

data utilisation / BI frontend tools / Analysis and ad hoc queries

Zeilenbeschriftungen	Count_project	budget_cost	realised_cost_declared	realised_cost_after_submission	realised_cost_certified
AL022	70	1.391.683,05	7.158.314,44	44.907,54	41.907,54
BA020	21	365.747,20	7.639,12	3.903,13	3.903,13
BE100	37	1.559.430,90	143.355,90	92.102,20	87.596,20
BG333	16	237.690,00			
BG411	36	816.432,60	51.278,30	24.330,60	24.330,60
BG421	23	527.353,40	21.362,90	10.920,20	10.834,20
CY000	45	874.907,50			
EL303	70	2.447.755,80	245.679,10	142.724,30	127.839,70
EL431	11	635.431,00			
EL613	13	758.295,00	9.308,00	9.308,00	9.308,00
EL632	29	1.167.014,00			
ES511	185	7.378.233,90	258.413,10	174.347,40	169.949,20
ES614	32	633.800,00	30.061,20	30.061,20	30.061,20
ES617	12	718.950,00			
FRH03	27	1.044.245,00			
FRJ23	1	0,00			
FRL01	17	522.000,00			
FRL03	5	617.246,00			
FRL04	62	2.190.054,30	51.889,60	19.227,10	16.727,10
FRL05	11	411.982,30	18.123,60	18.123,60	16.593,50
HR031	13	649.950,00	71.736,60	34.465,50	34.465,50
HR036	19	350.000,00	45.005,30	20.962,60	20.962,60
HR037	21	740.989,00	25.630,00	20.487,20	20.487,20
HR050	42	1.189.055,00	160.109,20	160.109,20	157.609,20
ITC11	26	721.500,00	43.149,60	43.149,60	43.149,60
ITC33	8	451.598,00			
ITG12	16	250.350,00			
ITG2F	10	398.000,00			
ITH55	14	1.370.573,30			
ITI19	12	524.667,90	22.635,90	22.635,90	22.635,90
ITI43	56	2.310.274,90	135.482,60	97.301,60	84.301,60
ME000	26	498.245,64	16.761,85	16.761,85	16.761,85
PT170	36	913.852,40	35.570,60	0,00	0,00
SI032	23	719.000,00	66.770,80	66.770,80	65.728,20
SI041	21	612.880,00	75.684,90	33.336,70	26.336,70
<b>Gesamtergebnis</b>	<b>1066</b>	<b>35.999.188,09</b>	<b>8.693.962,61</b>	<b>1.085.936,22</b>	<b>1.031.488,72</b>

PivotTable-Felder

Felder anzeigen: (Alle)

Suchen

- costline\_name
- ViewDim\_Partner
  - abbreviation
  - name\_in\_english
  - name\_in\_original\_language
  - nuts\_region3\_code
  - partner\_id
  - partner\_type

Felder zwischen den Bereichen ziehen und ablegen:

Filter

Spalten

Σ Werte

Zeilen

nuts\_region3\_code

Σ Werte

Count\_project

budget\_cost

realised\_cost\_declared

realised\_cost\_after\_submission

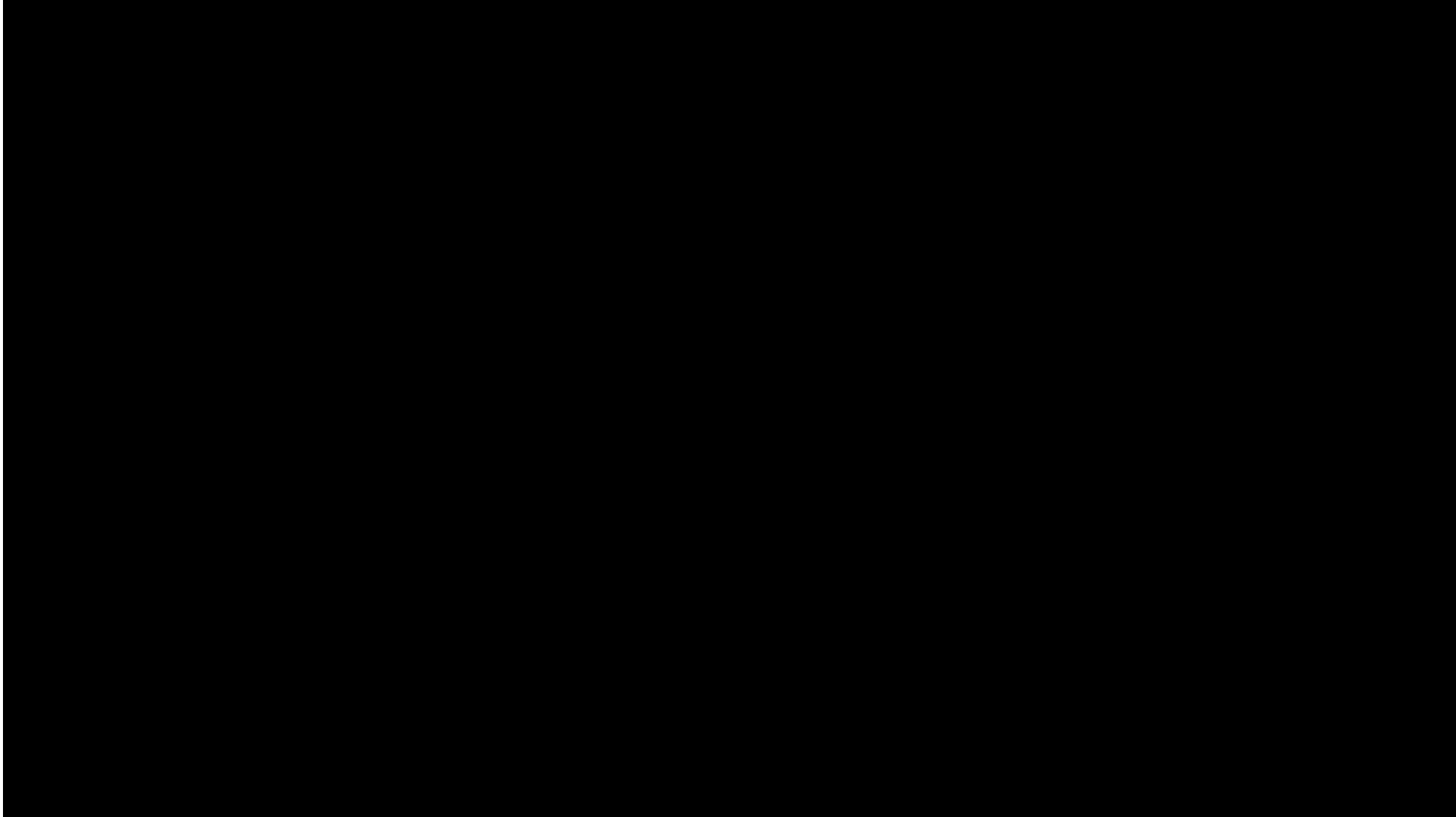
realised\_cost\_certified

Layoutaktualisierung zurückstellen

Aktualisieren

# Jems – Business Intelligence

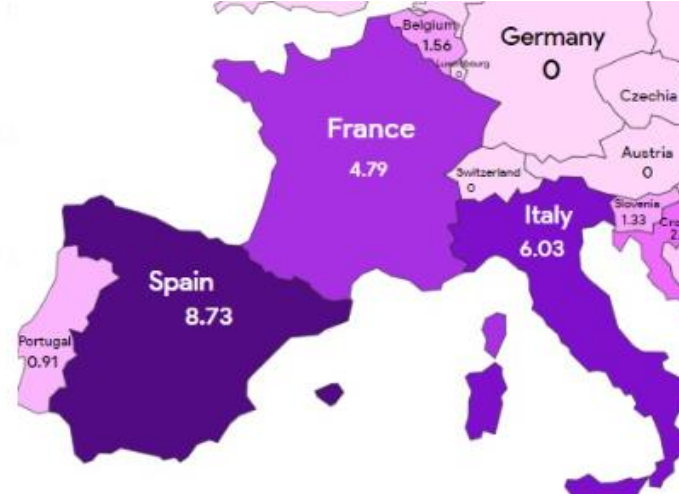
data utilisation / BI frontend tools / Analysis and ad hoc queries



# Jems – Business Intelligence

data utilisation / BI frontend tools / map reports

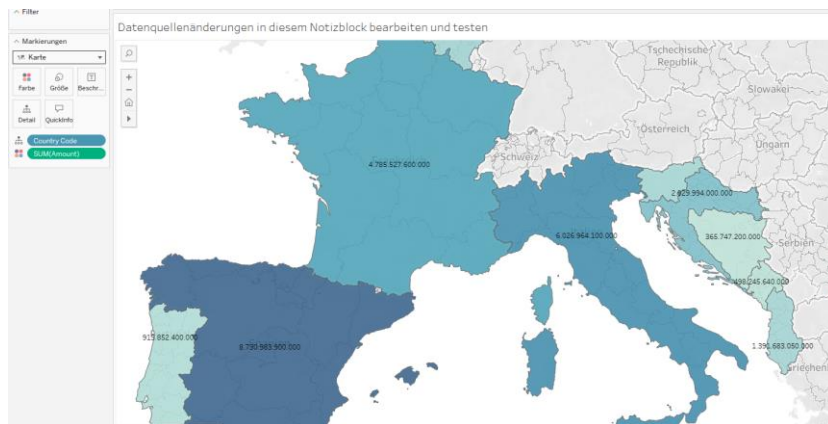
## Flourish Studio



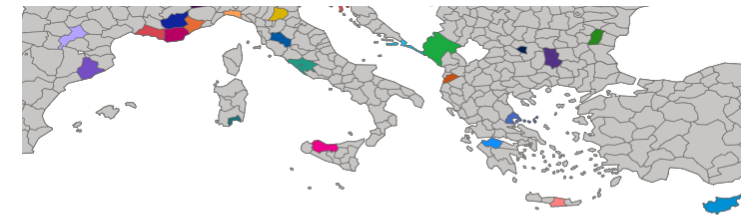
## Excel



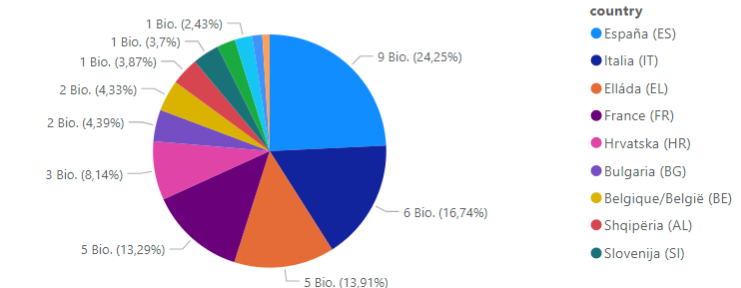
## tableau



## Power BI



Partner amount nach country





# Jems – Business Intelligence Frontend Tool

