



**B.I.R.O.**

**Best Information through Regional Outcomes**

A European Public Health Project, DG-SANCO, 2005-2008

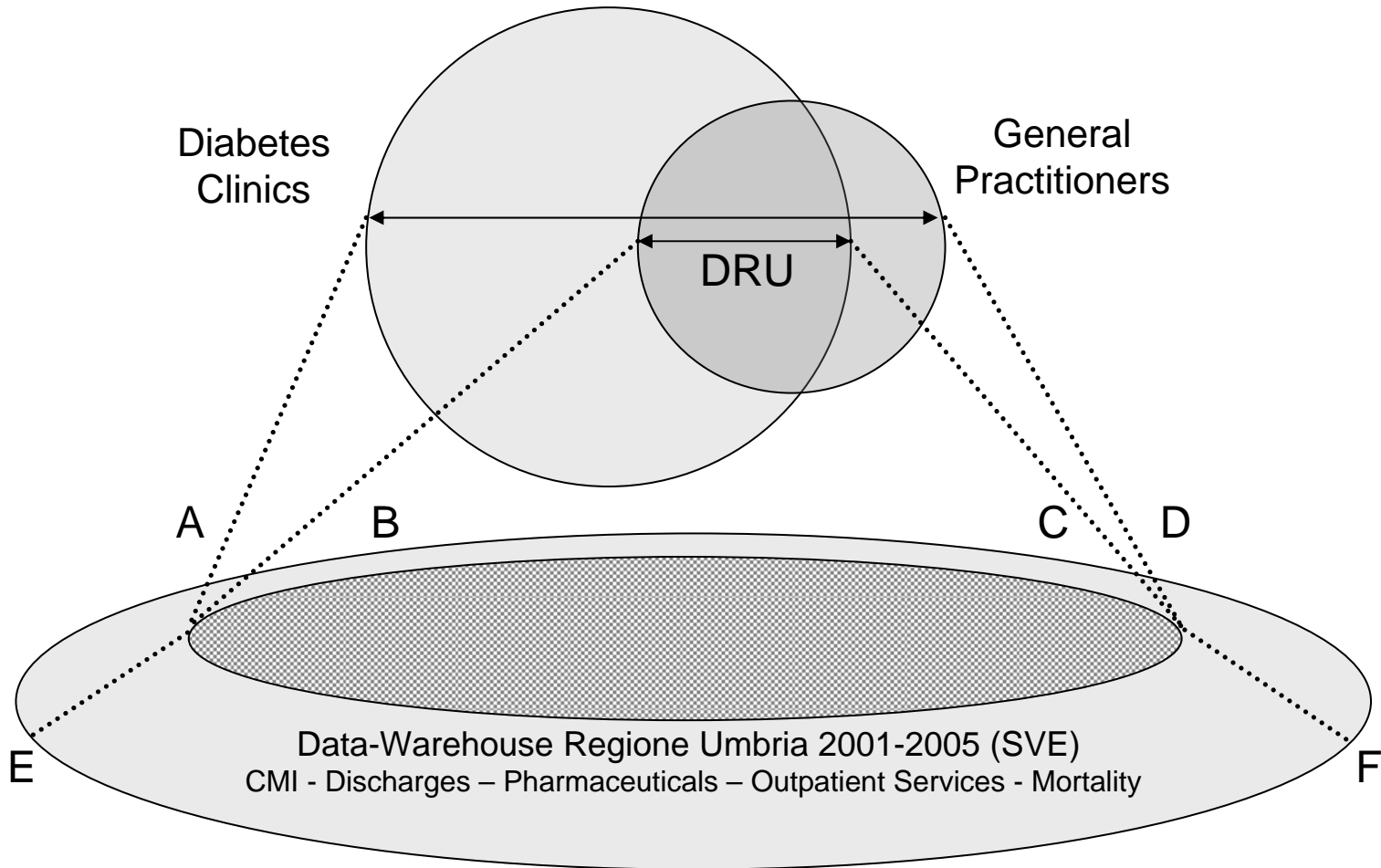
# B.I.R.O. General Issues

Indicators and Data  
Collection from  
Participating Regions

*BIRO Graz Meeting, 29-30 September 2006*



# System for the eValuation of health outcomEs in Diabetes (SVE-D) - Regione Umbria





# Preliminary Results 2001-2004

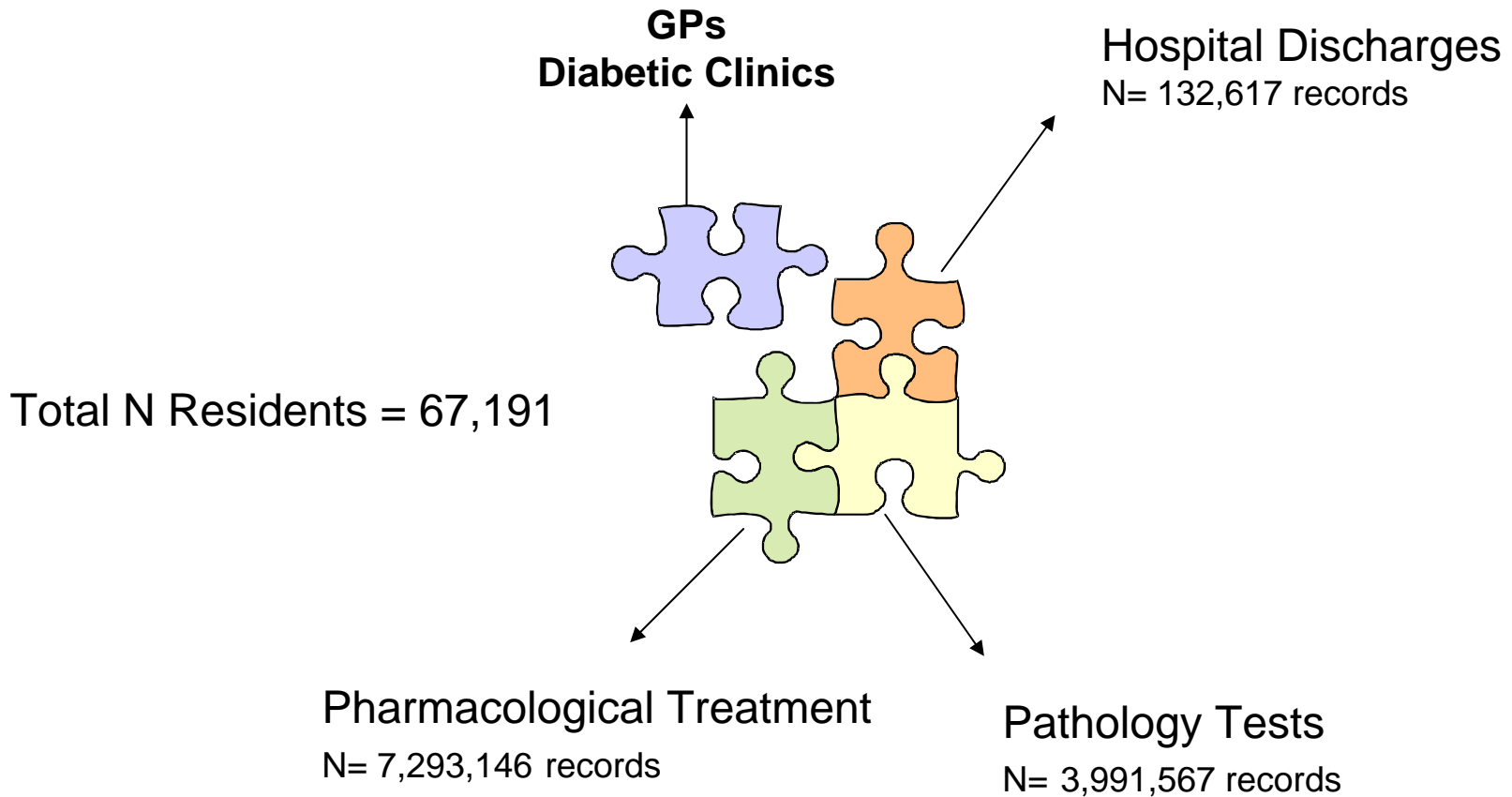
Hospital Discharge Diagnosis ICD=250xx	Anti-Diabetic Treatment (Drug)	Hba1c Test	N
0	0	1	12434
0	1	0	22525
0	1	1	11908
1	0	0	7208
1	0	1	889
1	1	0	10397
1	1	1	8142

Total N Residents = 67,191



# Overall SVE-D Data Platform

## Regione Umbria 2001-2004





# Estimated Number of Cases and Diabetes Prevalence by District Regione Umbria 2001-2004

District	Denominator (Residents)	Numerator (Diabetic)	Rate (%)	Adj. Rate (%)	95% C.I	Adj.OR [R.C.= other]	95% CI
101 01	74133	5004	6.750	7.088	(6.508-7.668)	0.85	(0.82-0.88)
101 02	55548	4229	7.613	7.646	(6.977-8.316)	0.94	(0.91-0.98)
102 01	175810	12462	7.088	7.674	(7.297-8.050)	0.94	(0.92-0.96)
102 02	56579	4151	7.337	7.846	(7.183-8.510)	0.97	(0.94-1.01)
102 03	54596	3877	7.101	7.000	(6.325-7.676)	0.85	(0.82-0.88)
102 04	53991	4070	7.538	7.484	(6.805-8.163)	0.93	(0.89-0.96)
103 01	12413	1242	10.006	9.426	(8.018-10.835)	1.18	(1.10-1.26)
103 03	94864	8038	8.473	8.407	(7.894-8.919)	1.08	(1.05-1.10)
103 04	47088	4370	9.281	9.059	(8.332-9.786)	1.17	(1.13-1.22)
104 01	128677	10320	8.020	7.975	(7.536-8.415)	0.97	(0.95-0.99)
104 02	52245	4901	9.381	9.102	(8.412-9.792)	1.18	(1.14-1.22)
104 03	42078	4527	10.759	10.057	(9.288-10.826)	1.33	(1.29-1.38)
<b>UMBRIA</b>	848022	67191	7.923				



# Items collected in Umbria Diabetes register

- idCentro
- idPaziente
- dataDiNascita
- Sesso
- dataDiagnosiDiabete
- tipoDiabete
- data
- Altezza
- BMI
- Colesterolo
- Colesterolo\_HDL
- Colesterolo\_LDL
- Creatinina
- Emoglob.Glicata\_(Hplc)
- Emoglob.Glicata\_HBA1C
- Glicemia\_a\_digiuno
- Microalbuminuria
- Peso
- Pressione\_Diastolica
- Pressione\_Sistolica
- Trigliceridi
- Trigliceridi\_post\_12h\_dig.
- Insulina (T/F)
- Metformina (T/F)
- Ipoglicemizzanti\_Orali (T/F)



# Data collection from GPs

- Data collection (within June 2007)
- Number of GPs: 35
- Total population: 52500
- Diabetic population: ~3500
- Referring to diabetes centers: ~50%



# Data collection from Diabetes Centers

- Data collection (within June 2007)
- Number of DCs: 7
- Diabetic population: ~31000