

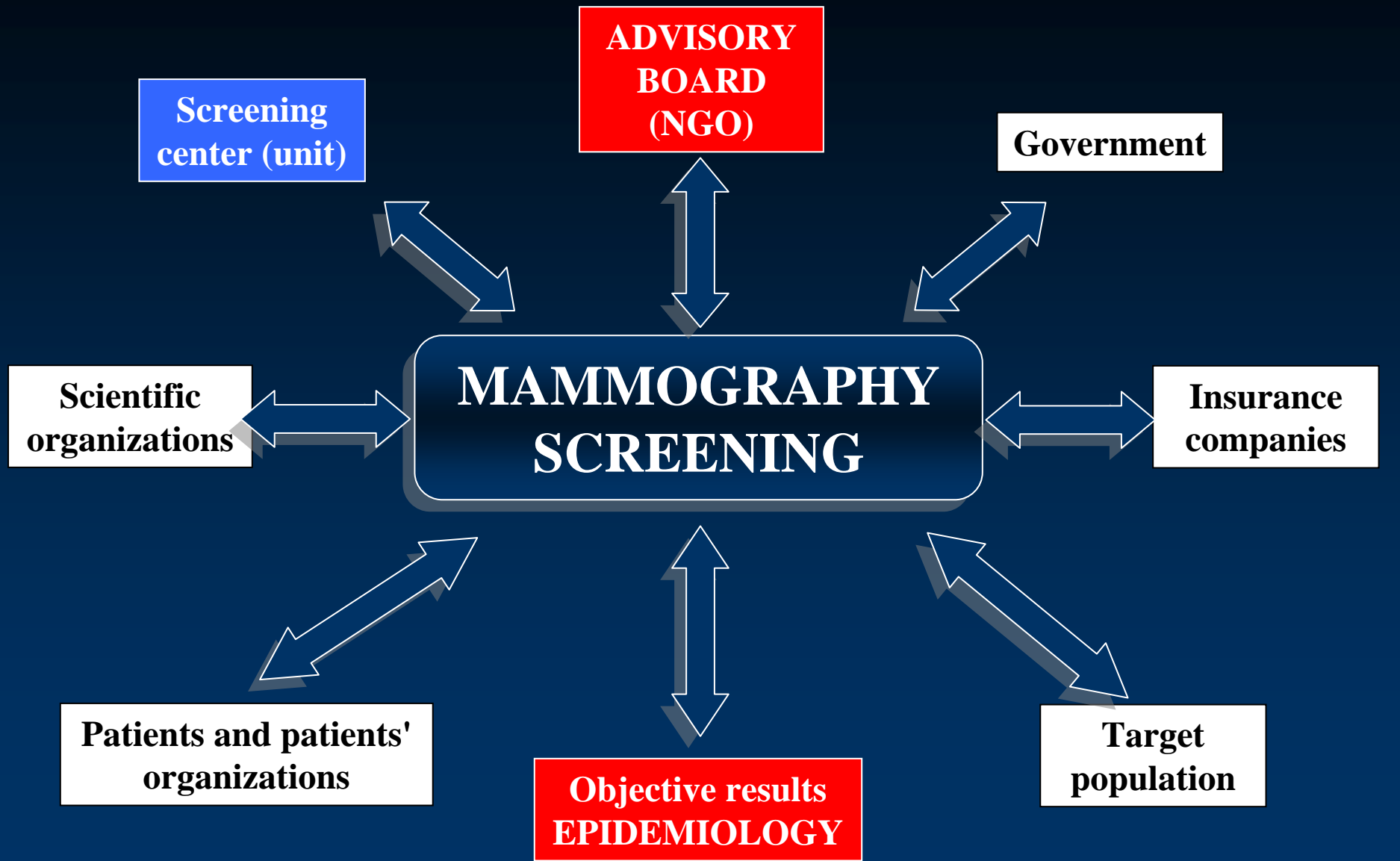


**OFFICIAL RESULTS OF THE NATIONAL
BREAST CANCER SCREENING PROGRAM
IN THE CZECH REPUBLIC:
2003-2004**

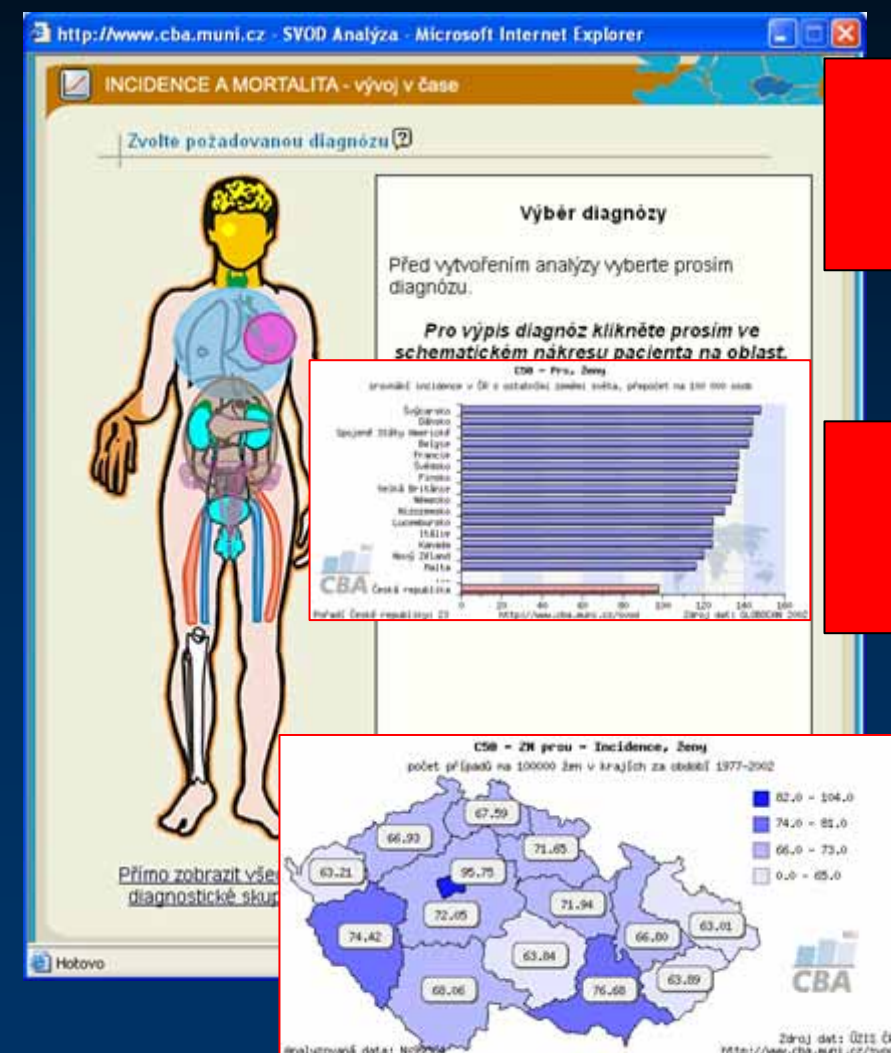


*Svobodník, A., Daneš, J., Skovajsová, D., Bartoňková H.,
Klimeš, D., Švihálek, J., et al.*

DIFFERENT SUBJECTS, DIFFERENT PERSPECTIVES



NATIONAL CANCER INSTITUTE: Epidemiological data are available in the Czech Republic

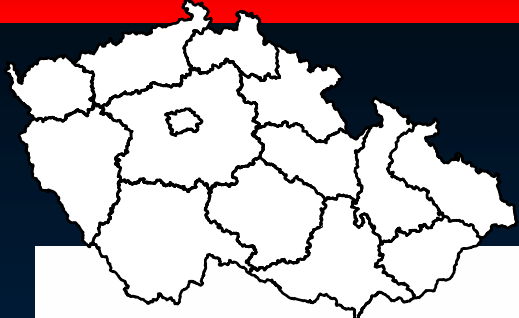


Data on all registered cancer diagnoses are available on-line to everyone with internet connection!

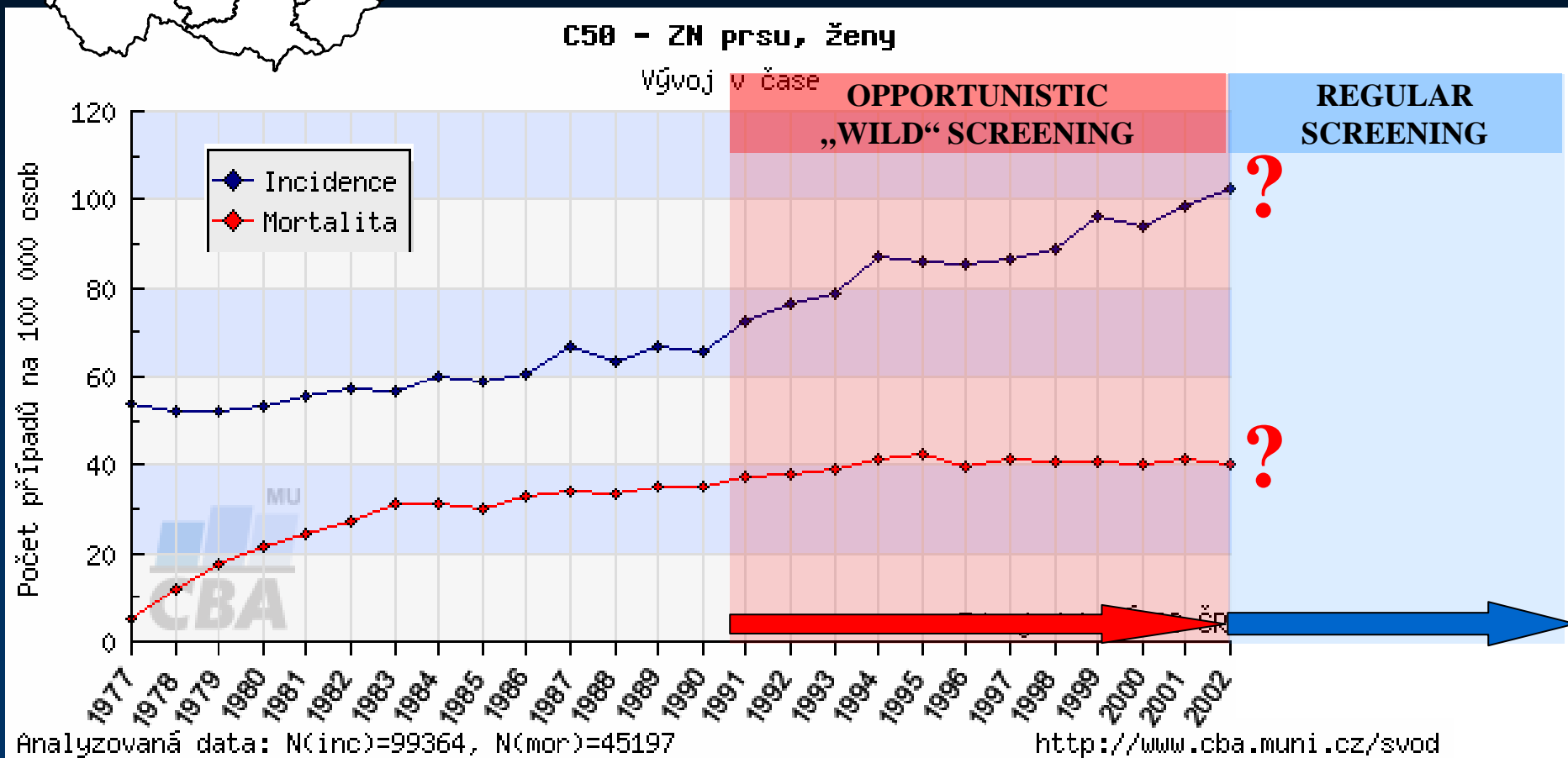
Data includes incidence and mortality rates, time profiles, distribution of clinical stages, regional heterogeneity and more...

Screening planning and evaluation of efficiency is improved.

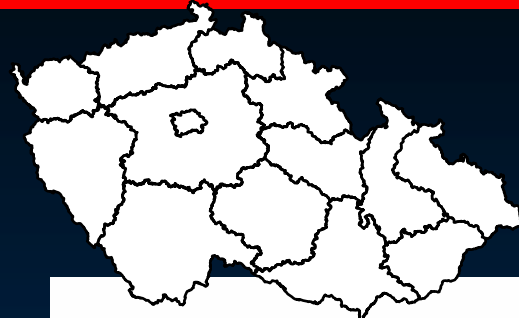
CZECH REPUBLIC: Basic epidemiology data (*breast cancer*)



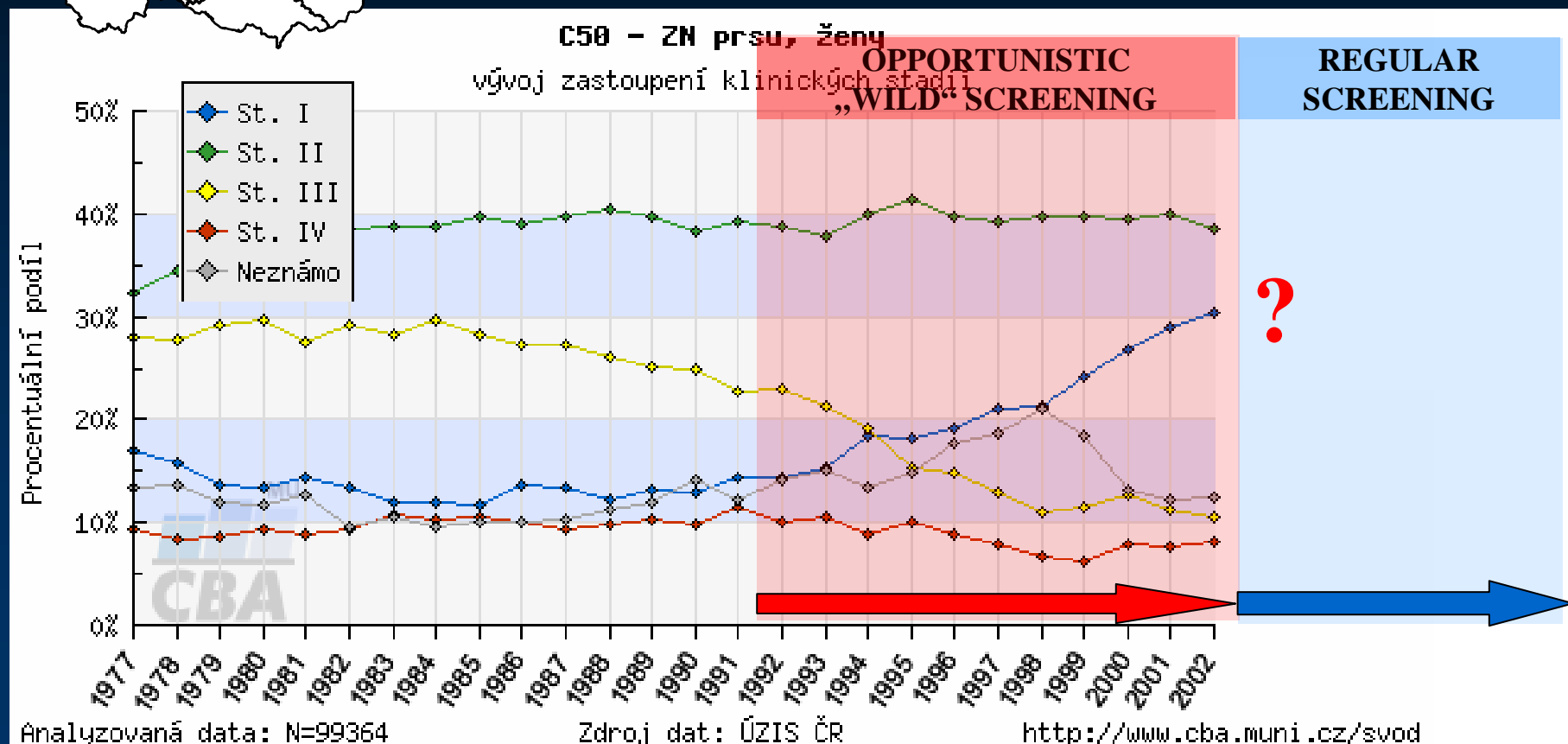
Valid data are available for more than 30 years
Modeling of screening effect will be possible



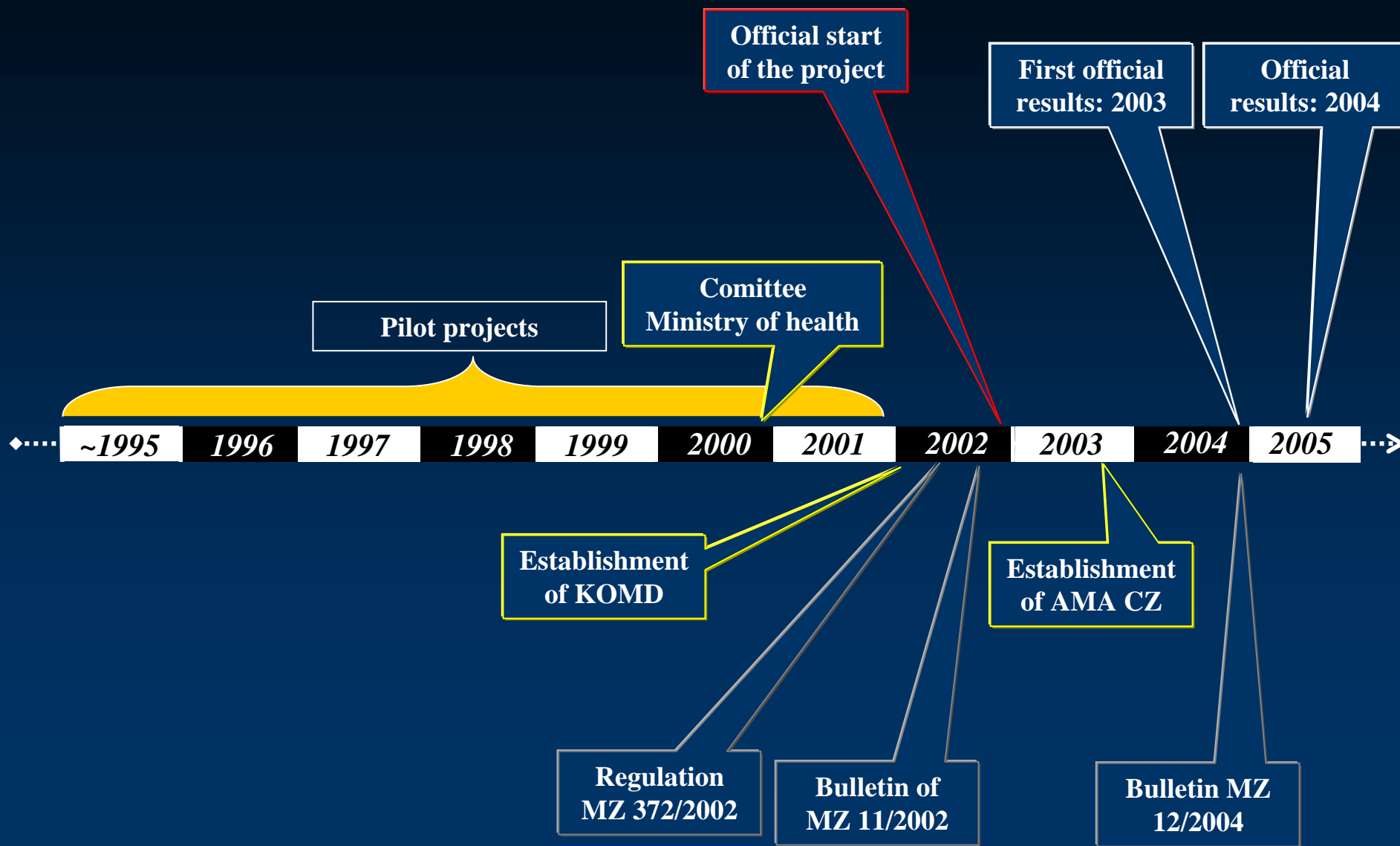
CZECH REPUBLIC: Basic epidemiology data (*breast cancer*)



Distribution of clinical stages

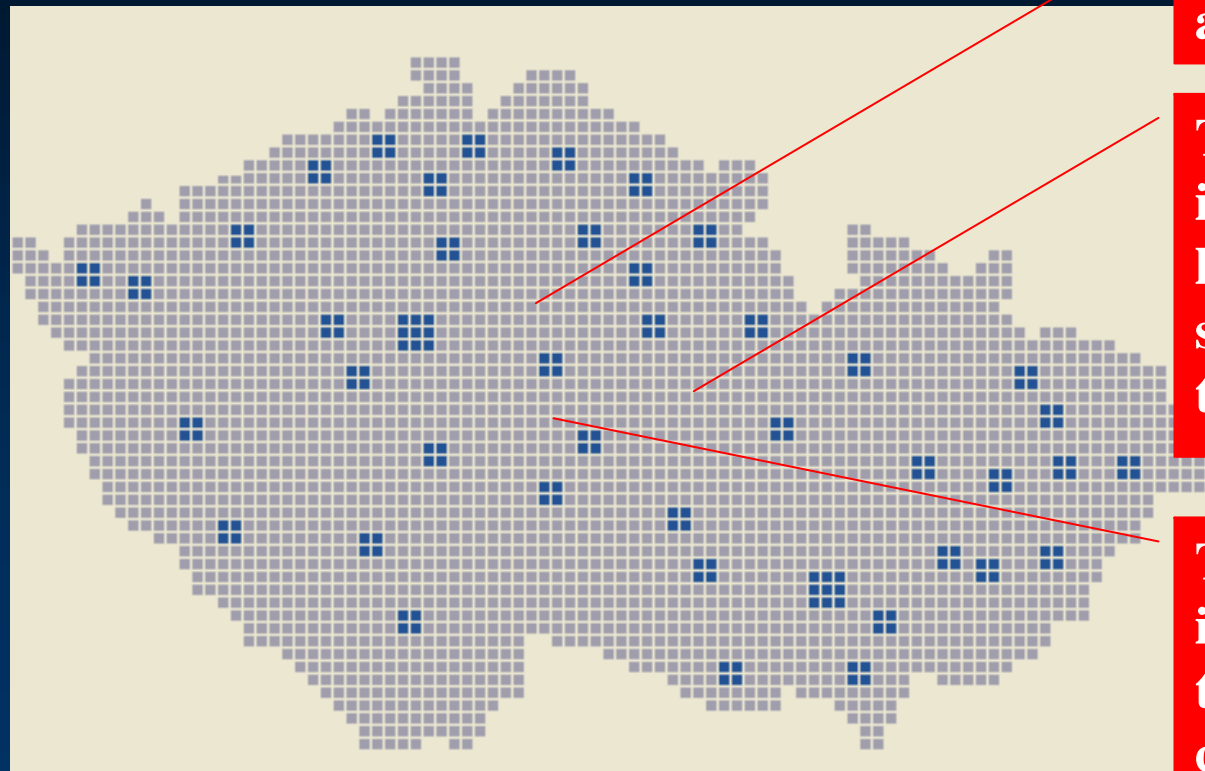


FROM THE HISTORY OF SCREENING IN THE CZECH REPUBLIC



CURRENT NETWORK OF ACCREDITED SCREENING CENTERS

A total of 57 accredited screening centers are available now



All centers passed accreditation process

The capacity of network is sufficient to guarantee high quality service screening for the whole target population

The quality of all centers is monitored regularly and the worst centers could be closed and new ones opened in future

OFFICIAL RESULTS OF THE SCREENING: 2003-2004

	2003	2004	Total
No of women screened	219,645	258,558	478,203
No of cancers detected	997	1 145	2 142
Breast cancer incidence (per 1000 women)	4.5	4.4	4.5
Distribution of stages			
Stage Tis	69 (7%)	79 (7%)	148 (7%)
Stage T1	709 (71%)	786 (69%)	1,495 (70%)
Stage T2	197 (20%)	220 (19%)	417 (19%)
Stage T3	12 (1%)	19 (2%)	31 (1%)
Stage T4	10 (1%)	12 (1%)	22 (1%)
Stage modified by treatment	0 (0%)	29 (3%)	29 (1%)

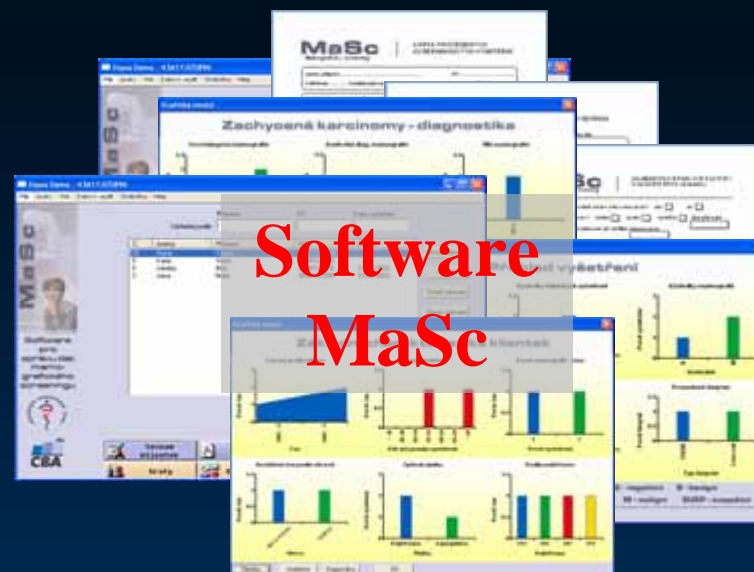
CURRENT STATUS OF PROJECT: WHERE TO GO NOW?

- QUALITY CONTROL

- INCREASE OF PARTICIPATION RATE

CURRENT STATUS OF PROJECT: WHERE TO GO NOW?**QUALITY CONTROL**

- all centers use the same data format to collect data on screening process

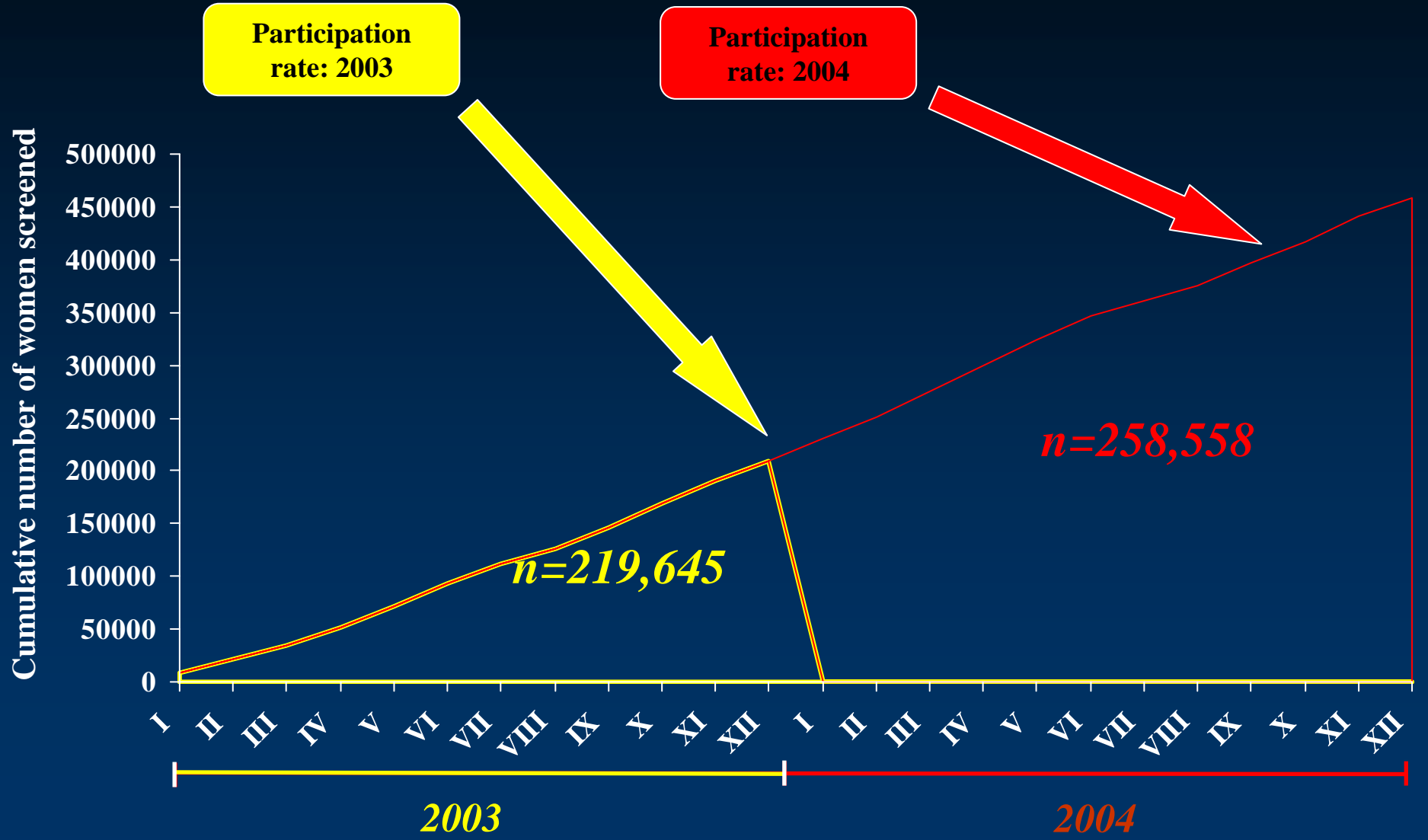


- National Breast Cancer Screening Database is used to monitor quality of work of all centers using standardized quality criteria

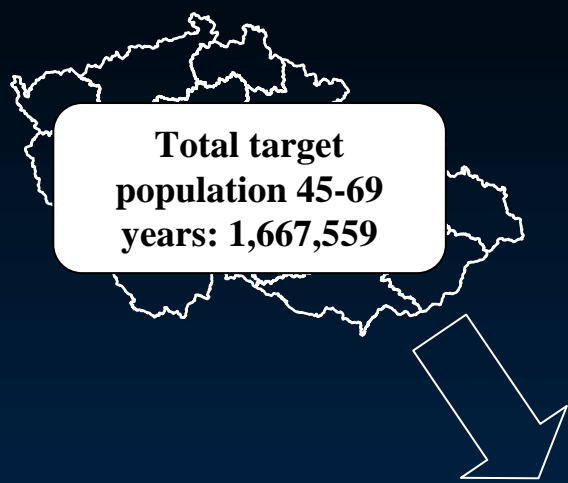


CURRENT STATUS OF PROJECT: WHERE TO GO NOW?

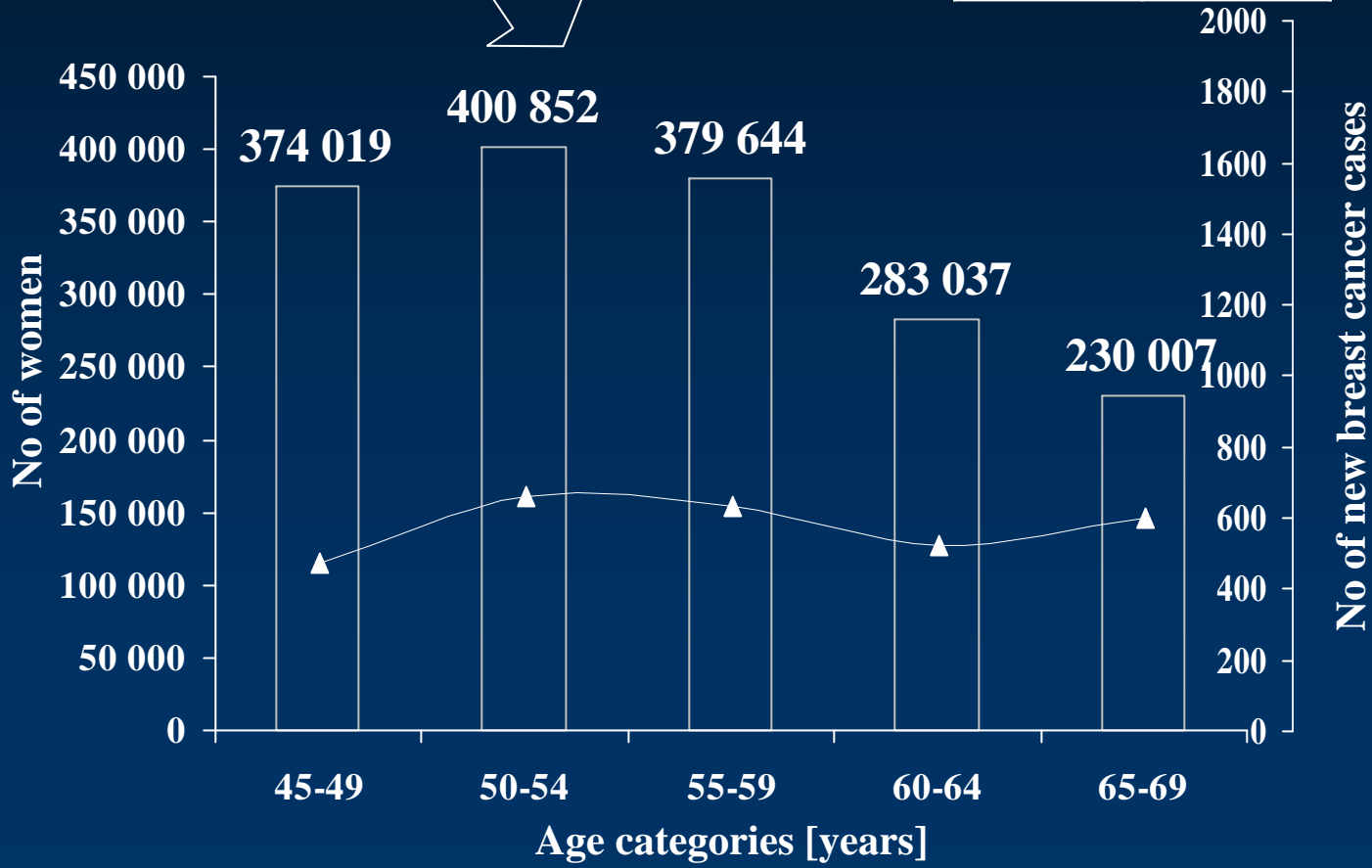
PARTICIPATION RATE



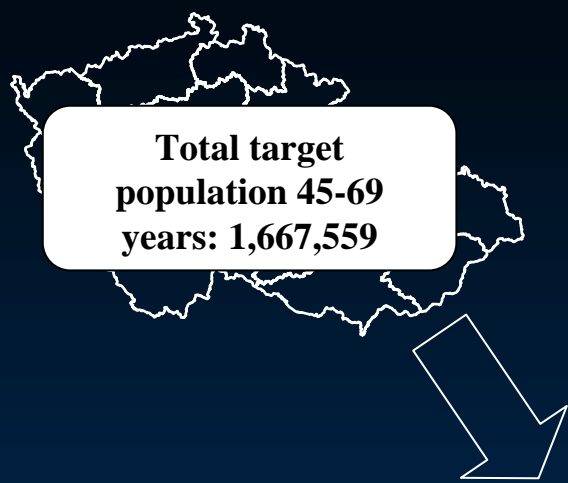
CURRENT STATUS OF PROJECT: WHERE TO GO NOW?



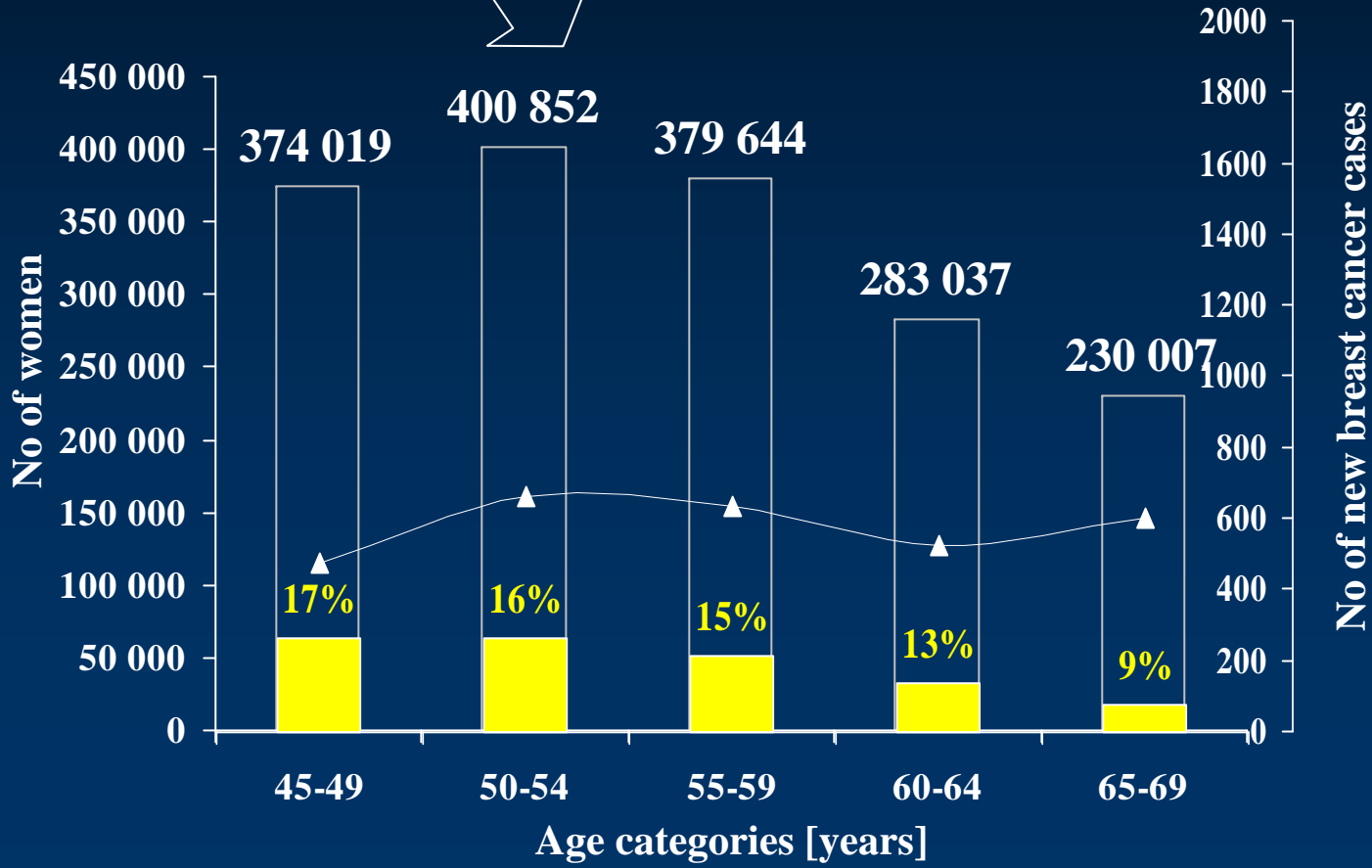
Age group	No of women
45 – 49	374,019
50 – 54	400,852
55 – 59	379,644
60 – 64	283,037
65 – 69	230,007



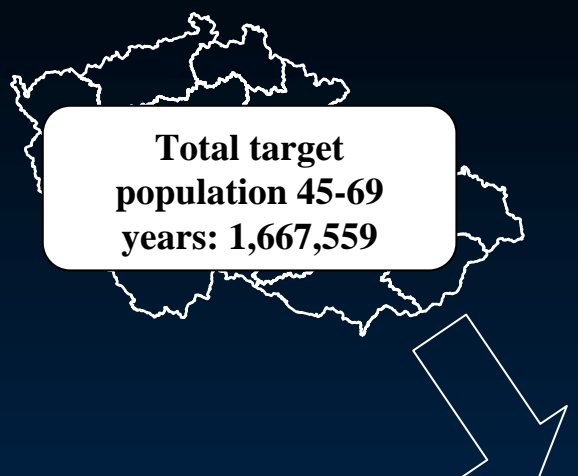
CURRENT STATUS OF PROJECT: WHERE TO GO NOW?



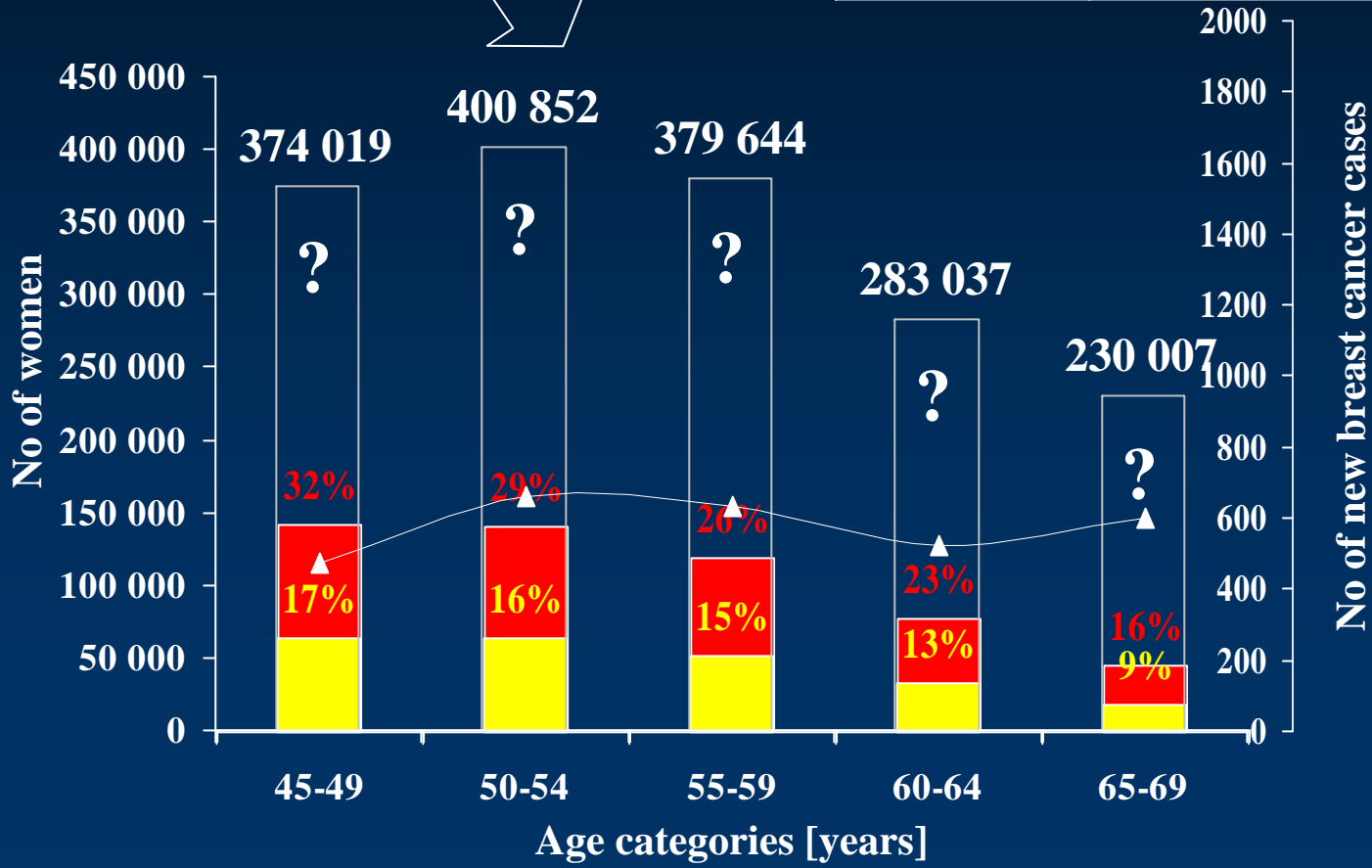
Age group	No of women	Participation 2003
45 – 49	374,019	17.3%
50 – 54	400,852	15.9%
55 – 59	379,644	14.6%
60 – 64	283,037	13.1%
65 – 69	230,007	9.1%



CURRENT STATUS OF PROJECT: WHERE TO GO NOW?



Age group	No of women	Participation 2003	Participation 2003-2004
45 – 49	374,019	17.3%	31.7%
50 – 54	400,852	15.9%	29.4%
55 – 59	379,644	14.6%	26.2%
60 – 64	283,037	13.1%	23.0%
65 – 69	230 007	9.1%	16.1%



CURRENT STATUS OF PROJECT: WHERE TO GO NOW?

REGIONAL HETEROGENEITY IN PARTICIPATION RATE

**Total target
population 45-69
years: 1,667,559**

Number of women (age 45-69)	
Region	o of women
Hl. m. Praha	206,117
Moravskoslezský kraj	203,064
Středočeský kraj	184,550
Jihomoravský kraj	182,602
Ústecký kraj	133,034
Olomoucký kraj	102,417
Jihočeský kraj	99,736
Zlínský kraj	94,779
Plzeňský kraj	90,890
Královéhradecký kraj	90,363
Pardubický kraj	81,146
kraj Vysočina	79,556
Liberecký kraj	69,522
Karlovarský kraj	49,783

+

Number of women screened		
2003	2004	Total
22,259	26,592	48,851
22,001	29,895	51,896
17,059	29,132	46,191
47,776	38,007	85,783
10,532	14,484	25,016
10,306	12,282	22,588
10,239	18,394	28,633
12,140	8,646	20,786
12,981	17,171	30,152
15,245	16,156	31,401
12,039	12,396	24,435
12,298	15,998	28,296
12,315	12,342	24,657
2,455	7,063	9,518

=

Participation rate		
2003	2004	Total
10.8 %	12.9 %	23.7 %
10.8 %	14.7 %	25.6 %
9.2 %	15.8 %	25.0 %
26.2 %	20.8 %	47.0 %
7.9%	10.9 %	18.8 %
10.1 %	12.0 %	22.1 %
10.3%	18.4 %	28.7 %
12.8 %	9.1 %	21.9 %
14.3 %	18.9 %	33.2 %
16.9 %	17.9 %	34.7 %
14.8%	15.3 %	30.1 %
15.5 %	20.1 %	35.6 %
17.7%	17.8 %	35.5 %
4.9 %	14.2 %	19.1 %



CURRENT STATUS OF PROJECT: WHERE TO GO NOW?**PARTICIPATION RATE**

- we have to enforce the system of direct invitation
- the legal barriers should be resolved as soon as possible to achieve the participation rate of **>70 %**

WHO SHOULD BE RESPONSIBLE FOR DIRECT INVITATIONS?

Pan
ADAM SVOBODNÍK
BŘENKOVA 1/172
61300 BRNO

Vážený pane,

*rád bych Vám touto cestou blahopřál jménem
při příležitosti Vašeho životního jubilea a do dalších let Vám
popřál především hodně zdraví, štěstí a spokojenosti.*

*V souvislosti s tímto jubileem bych Vás rád potěšil nejen přiloženou
gratulací, ale současně i malým dárkem v podobě balíčku vitaminových
preparátů, který je možno osobně převzít na pracovišti pojišťovny v Brně,
do 31. ledna 2006, denně v úředních*

FUTURE PERSPECTIVES OF BREAST CANCER SCREENING IN THE CZECH REPUBLIC

- **Start collecting therapeutic and survival data of breast cancer cases diagnosed in screening**
- **Perform exact cost-effectiveness analysis of the screening program on national level**
- **Utilize simulation approach to evaluate screening efficiency (MISCAN model?)**
- **Establish international collaboration**

INTERNATIONAL COLLABORATION

- ***EUROPEAN CONGRESS OF RADIOLOGY***
Vienna: March 2006, presentation accepted
- ***ANNUAL MEETING OF ASSOCIATION OF UNIVERSITY RADIOLOGISTS***
Texas: April 2006, abstract submitted
- ***IBSN MEETING***
Canada: May 2006, we are invited
- ***EBCN MEETING***
Budapest: February 2006, we are invited