

Obstacles in Arrhythmia treatment in Serbia



“ a capite ad calcem ”

Prof. Goran Milasinovic



Referral Pacemaker center in Clinical center of Serbia



Referral center
established 1967



Проф. др Миласин Милошевић

- Separate clinic, 12 beds, 10 physicians
- 1300 IPG, 150 ICD, 180 CRTp/D
- National registry
- Official National training center
- Official international “Hands-on” training center
- International Research center



President, Nucleus of European
Society of Cardiac Pacing 1989

Prof. Goran Milasinovic

National Pacemaker Registry 2009

Population in million **7,498,001**

Number of implanting centers **16**

Total PM implants **3207**

Total ICD implants **405**

New PM implants **2802**

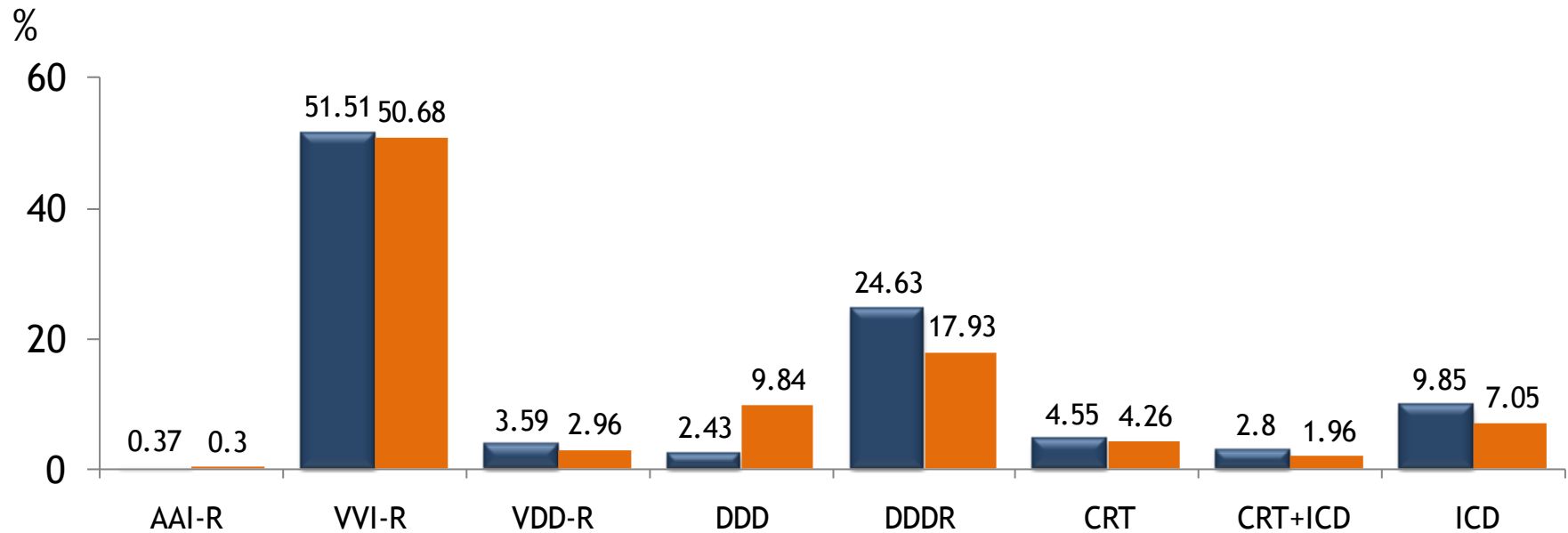
New PM implants in male **1782**

New PM implants in female **1020**

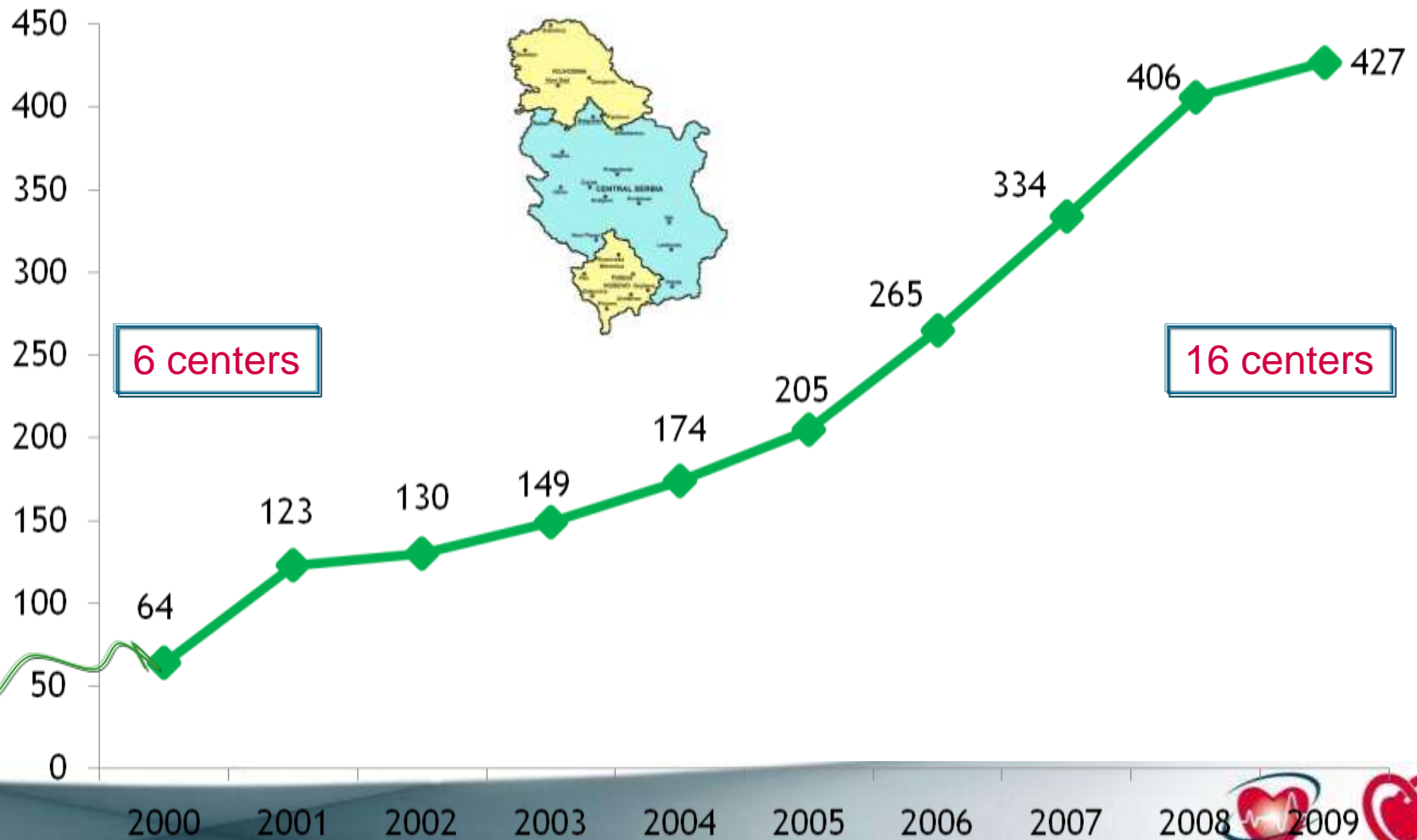


Pacing mode - Serbia 2008-2009

■ 2009 ■ 2008

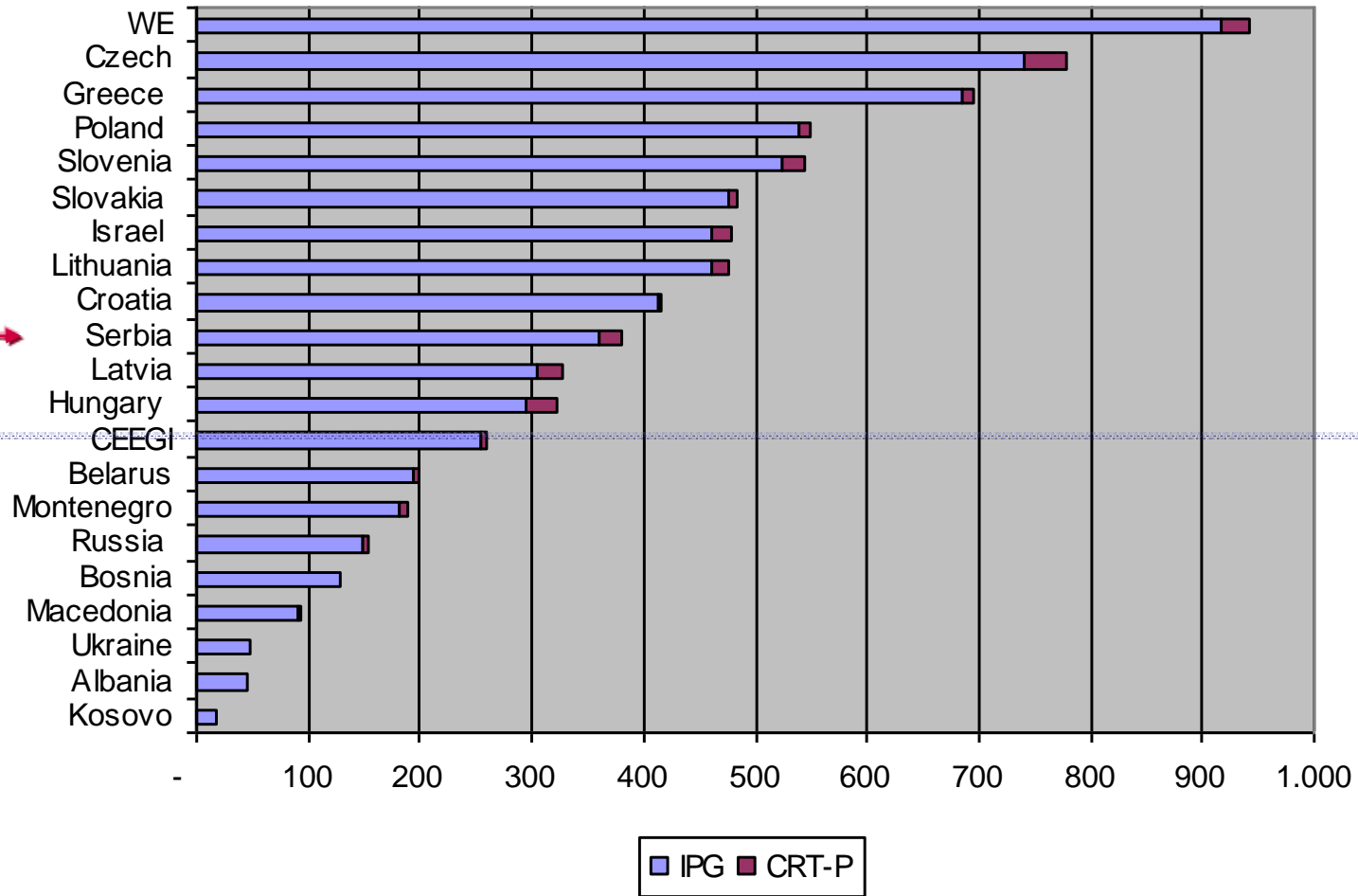


Implantation number 2000-2009

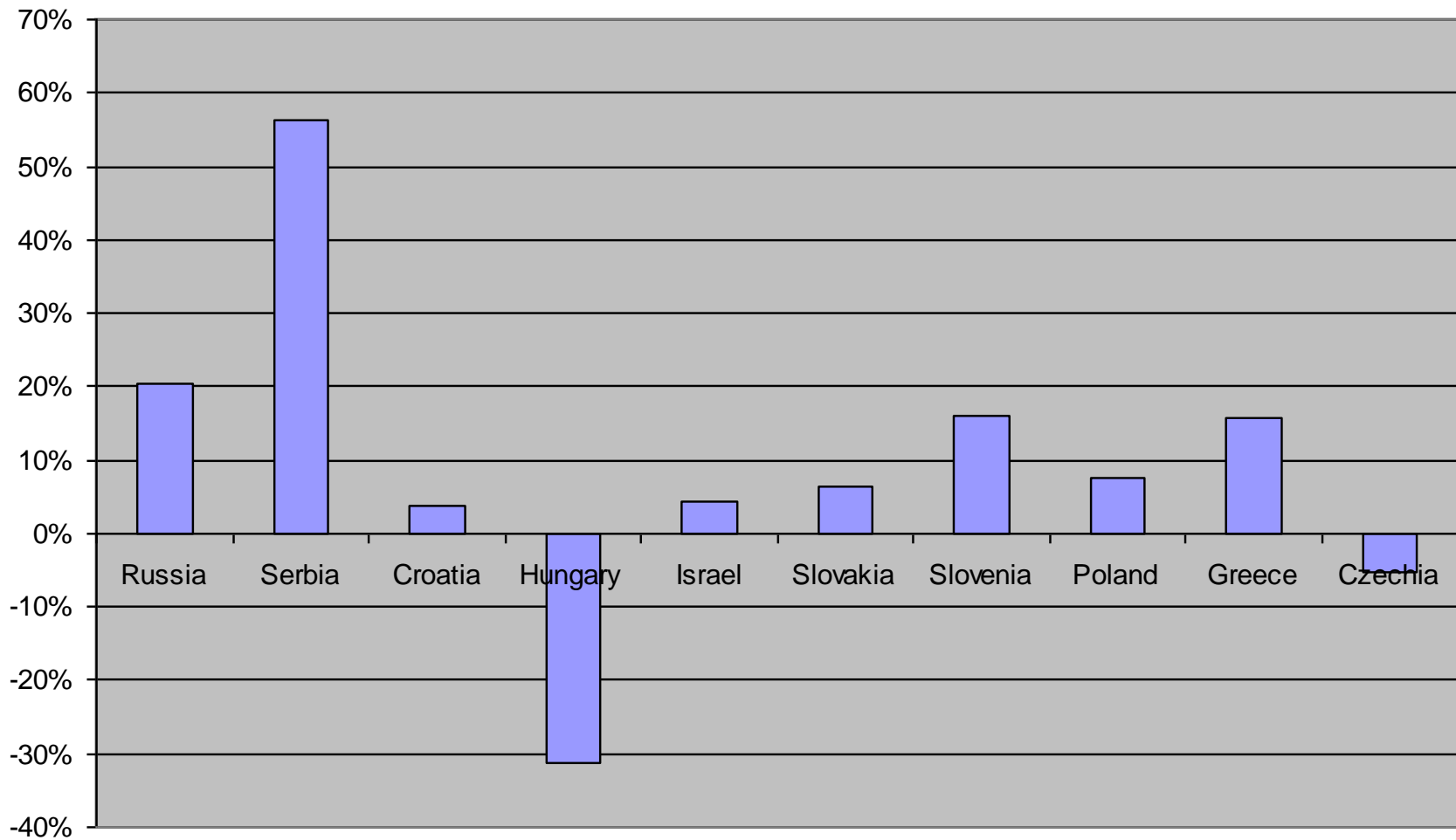


Implant Rates: Low Power

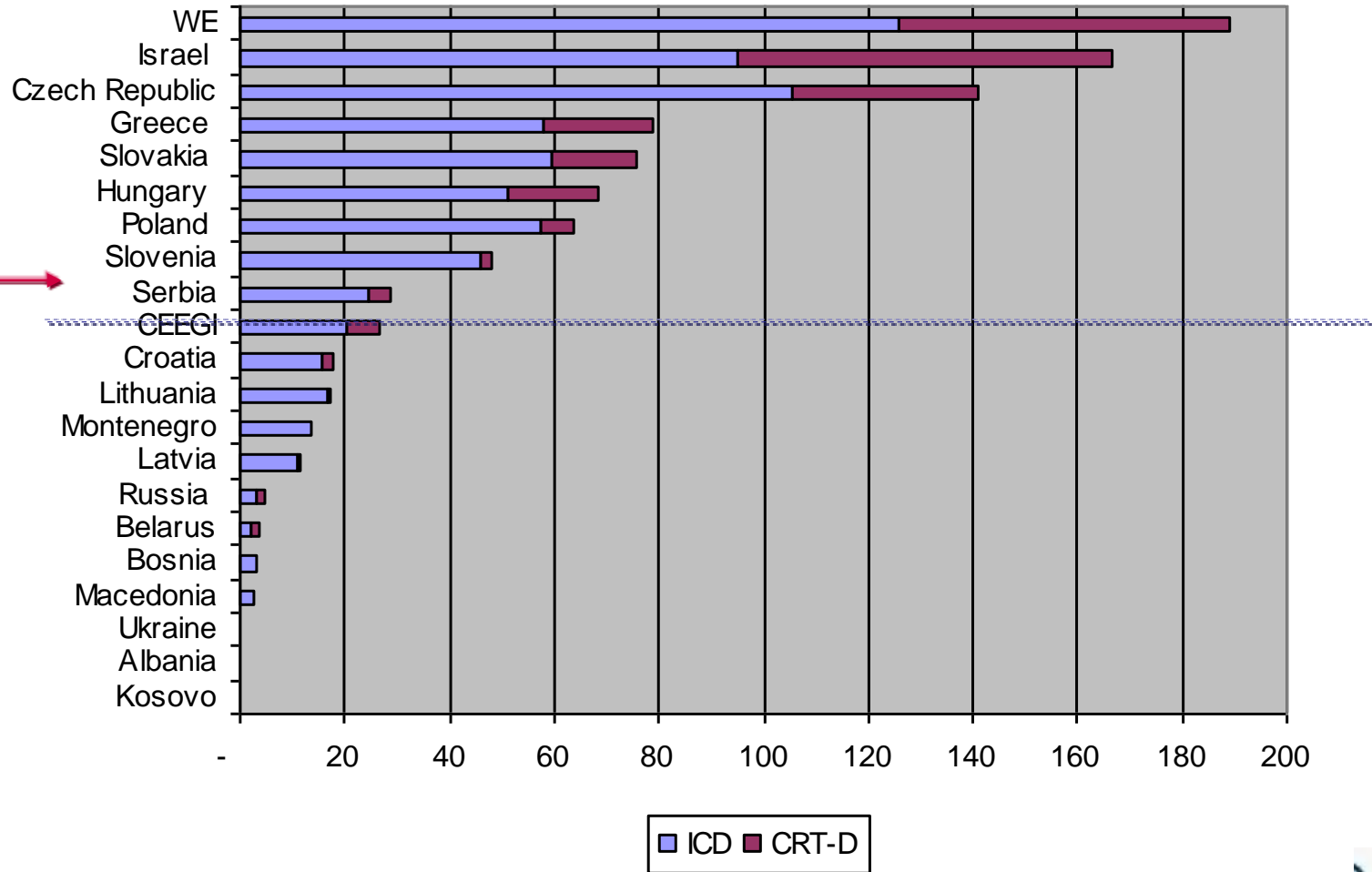
Source: *Implant Rates per Million CY07; EUCOMED, Industry Estimate*



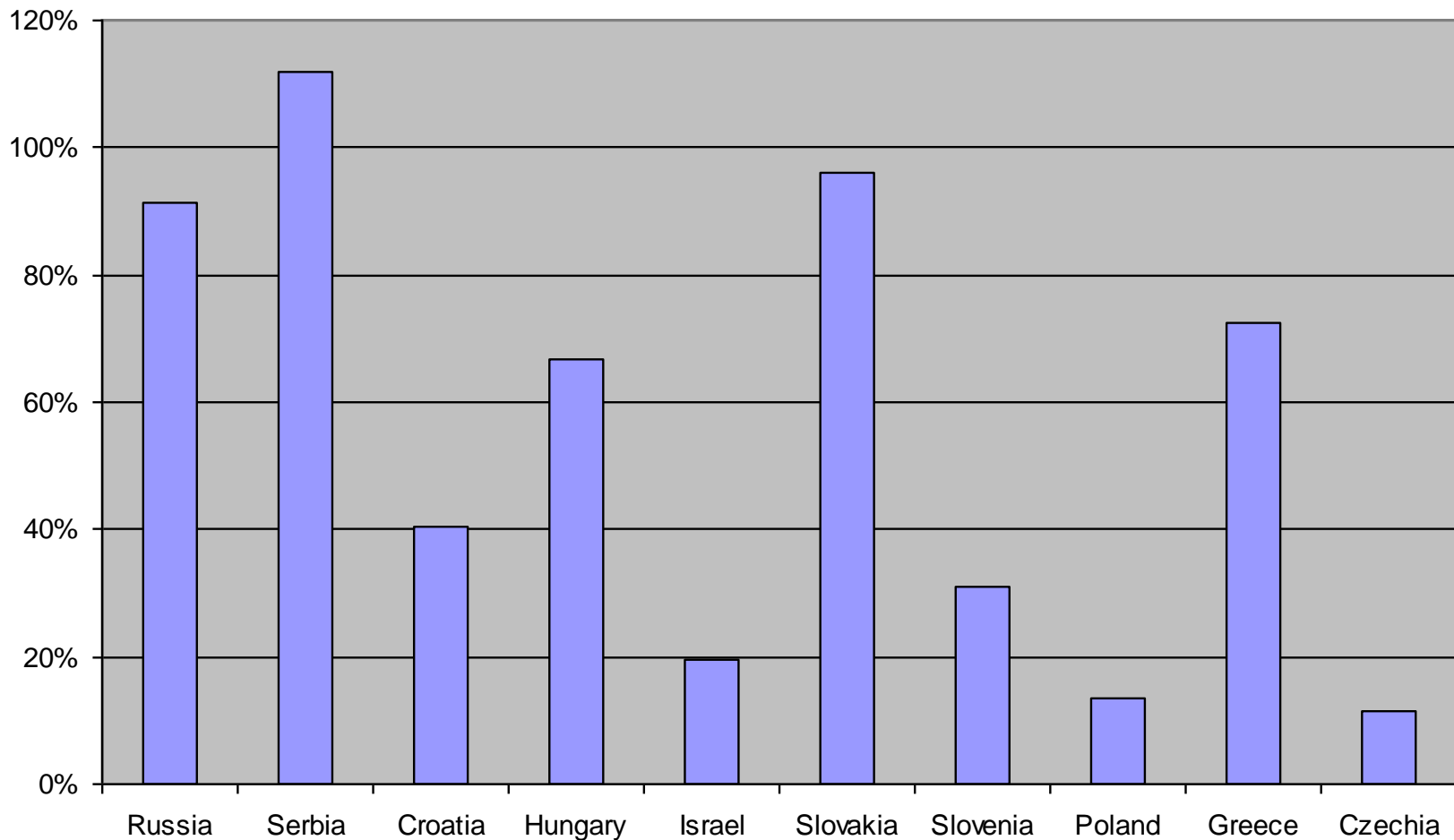
LP Implant Rates: Growth CY07 vs 06



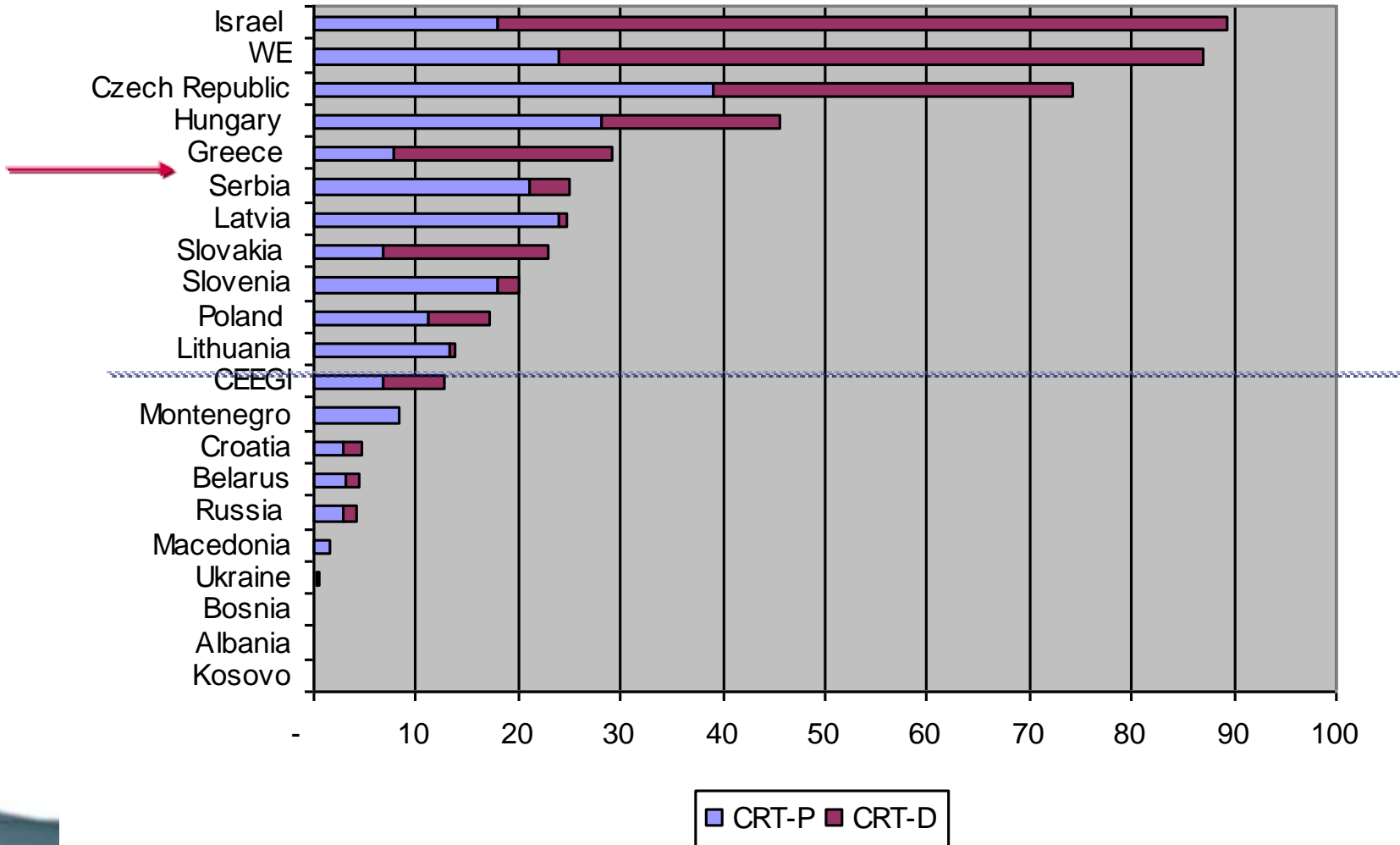
Implant Rates: High Power



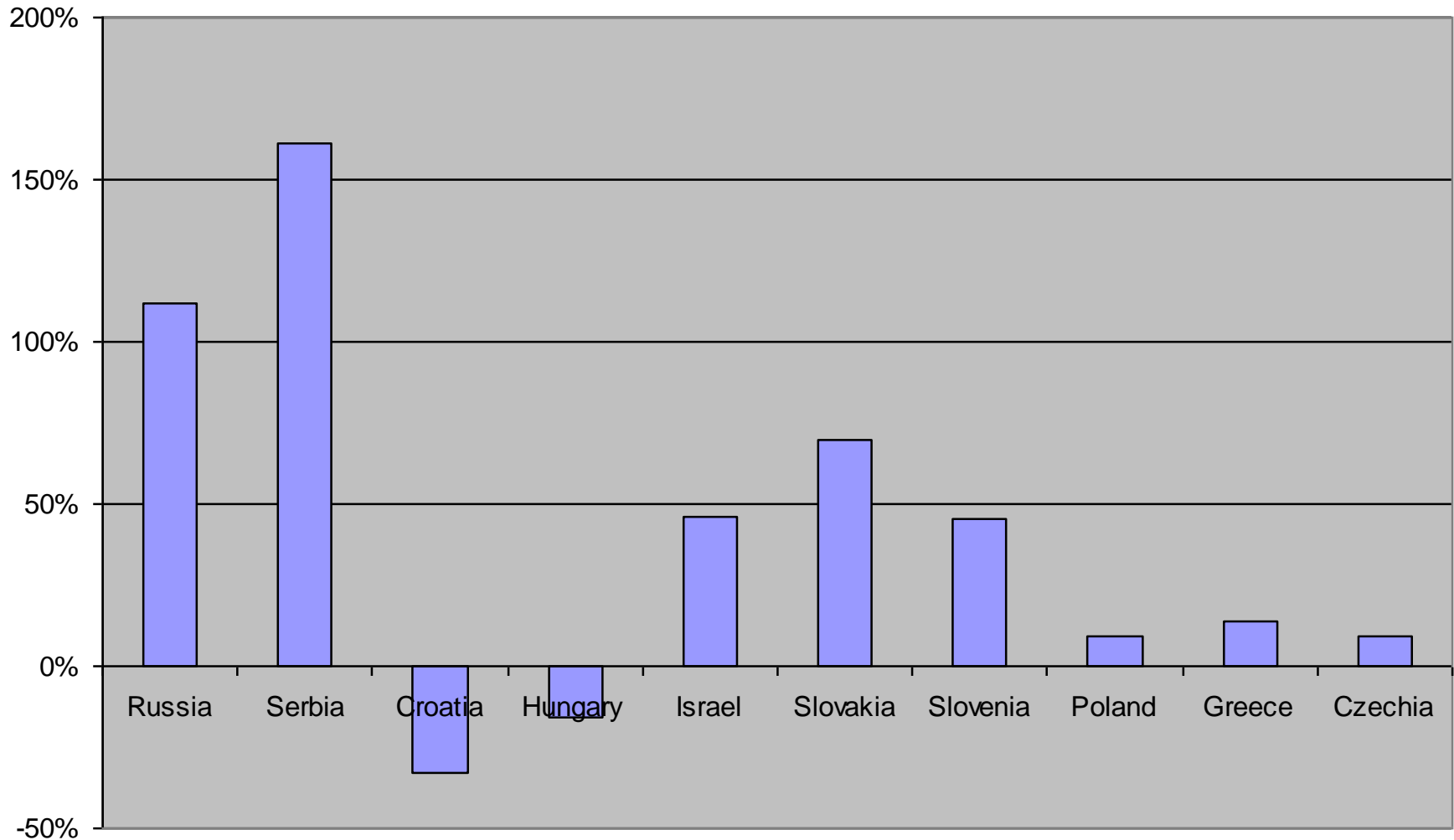
HP Implant Rates: Growth CY07 vs 06



Implant Rates: CRT



CRT Implant Rates: Growth CY07 vs 06



RF ablation 2009

Population in million	7,498,001
-----------------------	-----------

Number of centers	3
-------------------	---

Total number	~ 750
--------------	-------

AF ablation	~ 50
-------------	------



Current status

- Awareness: moderate
- Referrals: moderate
- Number of implanters: satisfied
- Number of implanting centers: satisfied
- National Pacing society activity: satisfied
- English speaking cardiology community: satisfied

Prof. Goran Milasinovic



Current status

- Single chamber vs. Dual chamber: 50%
- Primary prevention vs. Secondary: 50%
- CRTp vs. CRTd: 60-70% - unsatisfied
- RF ablation: unsatisfied

Prof. Goran Milasinovic



Obstacles in Arrhythmia treatment in Serbia

- Current economical situation
- Centralized tender: price as main issue
- Reduced budget: no space for last technology
- State investment vascular cardiology vs. electrophysiology: unsatisfied
- Lack of trained EPs for RF ablation: (8 EPs for RF ablation vs. 53 pacing implanters)

Prof. Goran Milasinovic

Advantages

- High volume Referral center with good potential for Research and “Hands-on” trainings



Prof. Goran Milasinovic

Potential Solutions for Serbia:

TEI

- Trainings for EPs for RF ablation in European high-volume centers
- New Equipment for RF ablation: (currently only one el.mapping system in country)
- “Quick-shot”-Investment in Primary prevention ICD supply for next 2-3 years (around 400 devices per year): industry or EHRA/ ESC action?

Prof. Goran Milasinovic



Eastern Initiative

***EHRA Summit 2010
with the Participation of Central-Eastern European Countries
“ICD* for Life Initiative - Fighting against Sudden Cardiac Death
in Emerging Economies”
(*Implantable Cardioverter Defibrillator)***

***26th November 2010 Friday
13:00 Opening Ceremony, Venue TBA***

Chairmen: P. Vardas, A. Auricchio, C. Wolpert, G. Milasinovic, B. Merkely, R. Hatala, Hungarian Minister of National Resources