

Resynchronization of the 1st in 2nd UCTE synchronous zone

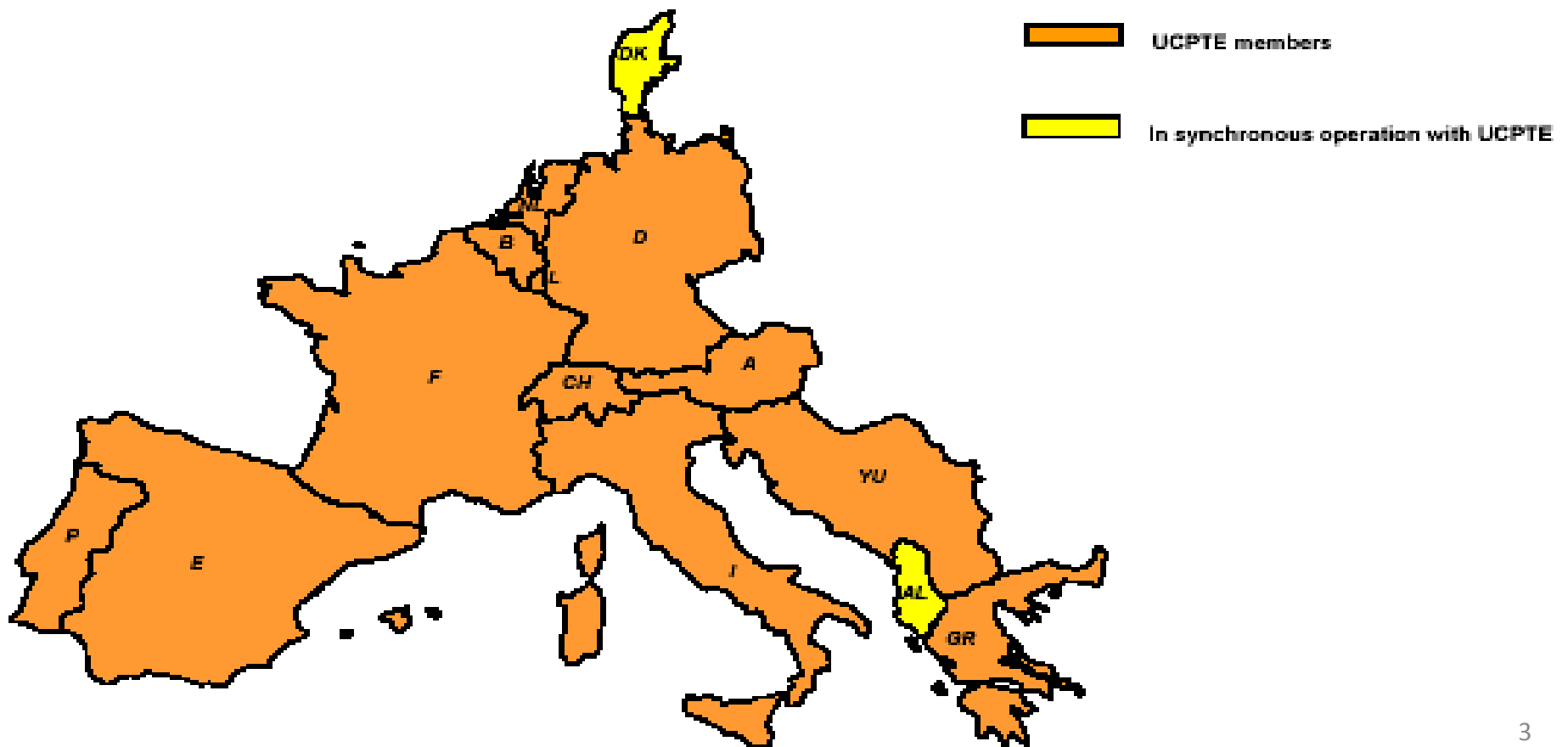
Milan Jevšenak
Athens, 12th October 2004

Zagreb, 10th October 2014

Overview of the presentation

- UC(P)TE activities after separation into two synchronous zones
- UCTE actions
- Action list
- Global aspects of the reconnection

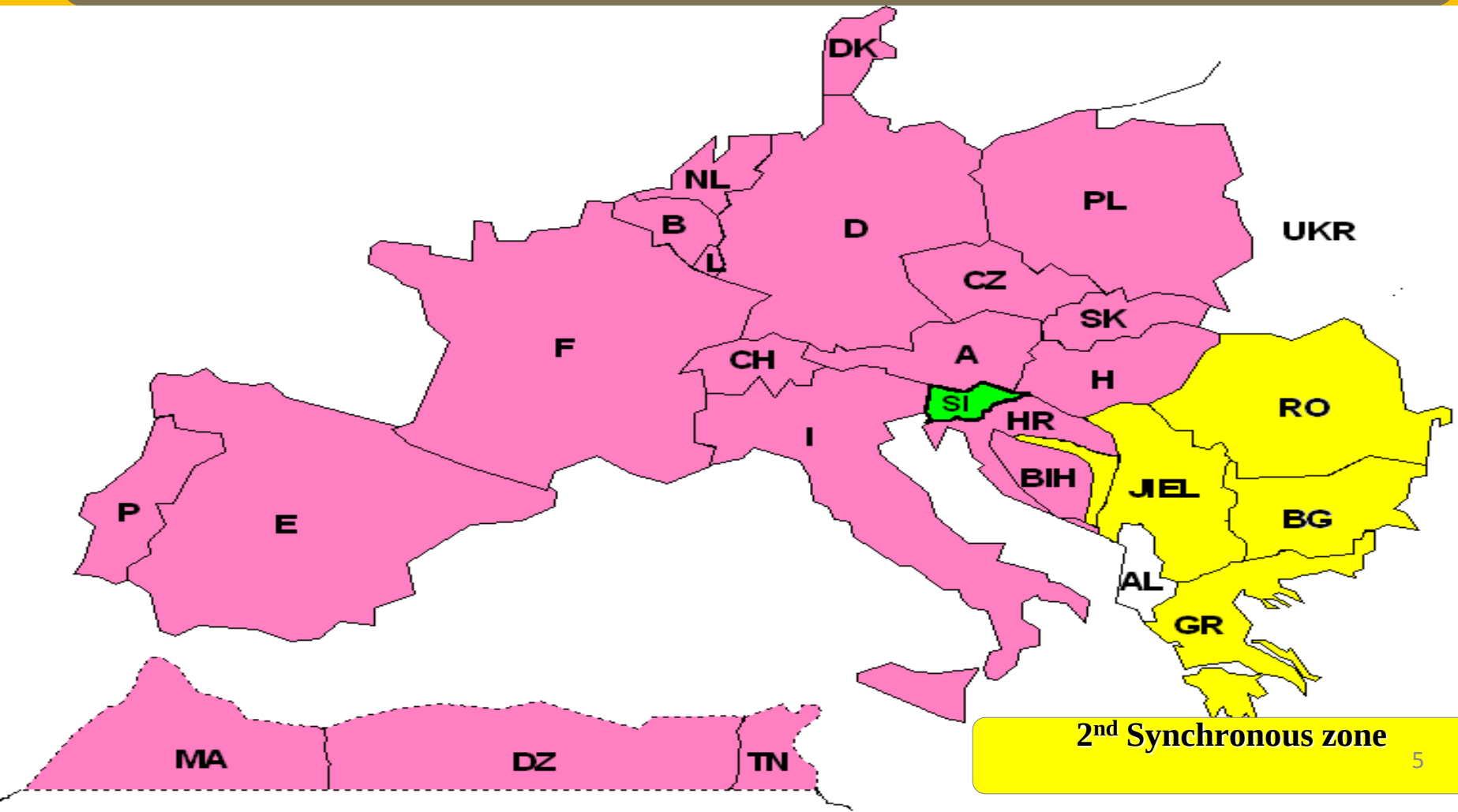
UCPTE in the year 1990



UCPTE Developments 1991-1997

- On the 23rd September 1991 separation of UCPTE synchronous area
- Between 1993 and 1996 - synchronous operation CENTREL with UCTE. Romania and Bulgaria with 2nd synchronous zone

UCPTE Developments 1991-1997



UCPTE actions

- 2001 - Memorandum of understanding on the realisation of the UCTE Northern with the Southern synchronous interconnected area
- In 2001 MoU between UCTE and HEP (Croatia), JPCC (Bosnia-Herzegovina) and EPS (FR Yugoslavia) signed to facilitate re-connection

Executive Team for N-S Re-Synchronization

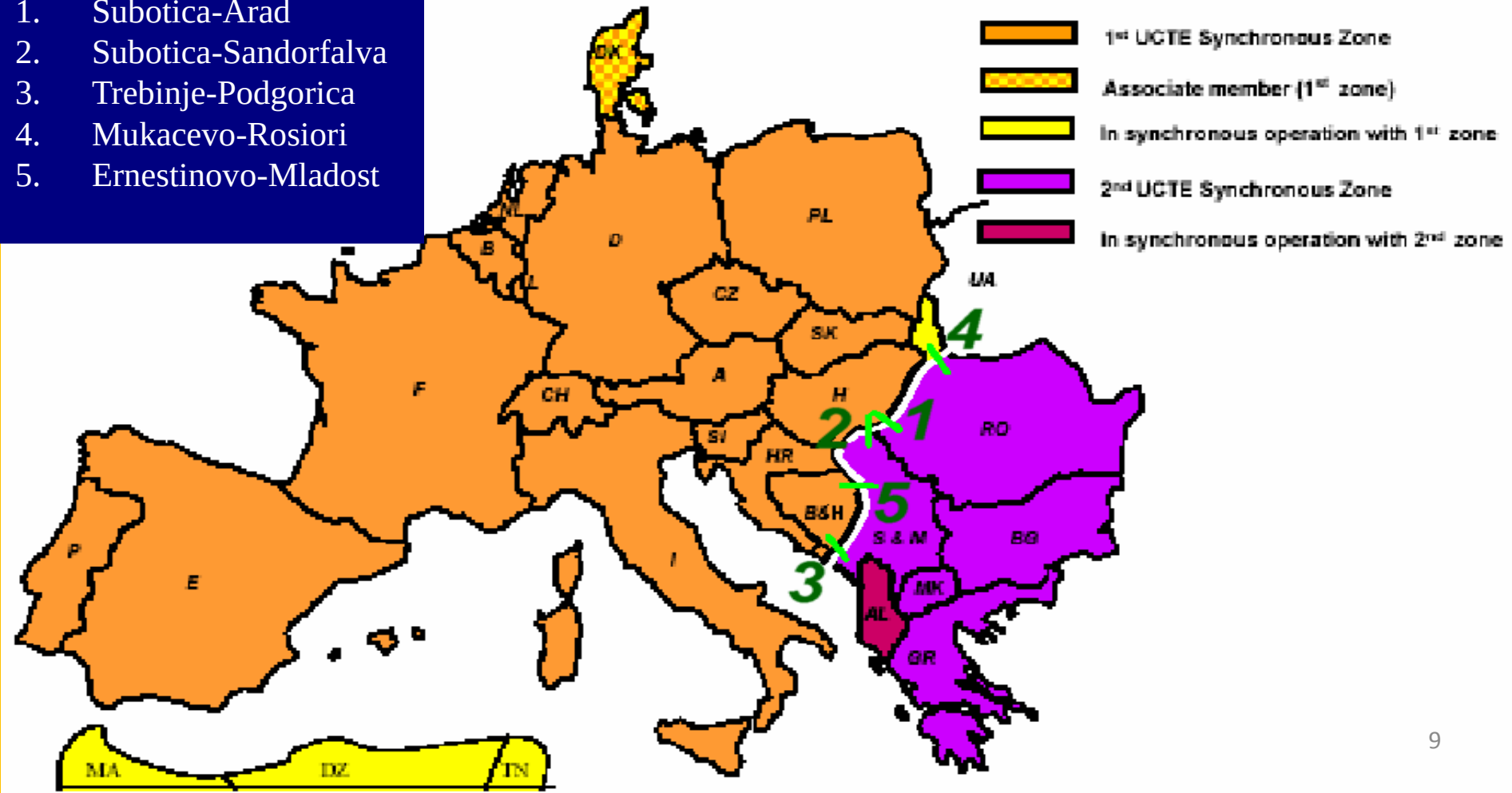
- Proposed by UCTE SC Chairman in January 2002 and established by UCTE SC in March 2002
- Mission Statement agreed and approved in September 2002

Content of the Action list

1. **Schedule with milestones for preparation and approval of two main documents :**
 - The Multilateral Re-synchronization Program (MRP)
 - The Multilateral Operational Co-ordination (MOC)
2. **Precise responsibilities of all involved TSO's and UCTE bodies for deliverables**
3. **Assessment of the global impact of reconnection to the complete UCTE area**
4. **Preparation of recommendation for all UCTE TSOs concerning the operation of the systems and use by market players during the reconnection period**
5. **Reports on readiness and functionality of Control Blocks SHBiH, JIEL and Bulgaria and Romania**
6. **Information on successful conclusion of commissioning for new and reconstructed facilities in the region including statement of readiness**
7. **Final Autumn 2004 model for L-F analyses**

Resynchronization interface

1. Subotica-Arad
2. Subotica-Sandorfalva
3. Trebinje-Podgorica
4. Mukacevo-Rosiori
5. Ernestinovo-Mladost



Global aspects of the reconnection

Reconnection will :

- **Re-unite UCTE as one synchronous system (being one of two largest in the world)**
- **Affect the Europe-wide market of electricity since it will have impact on the operational patterns of the whole UCTE system**
- **Create the physical structure for the integration of the SEE market with the IEM by removing biggest technical obstacle**

An aerial photograph of a river delta, likely the Danube Delta, showing a complex network of water channels and green land. A large blue rounded rectangle is superimposed over the center of the image, containing white text. At the bottom of the image, there is a yellow rectangular box containing yellow text.

**Reconnection has
been successfully
done on Sunday,
10th October 2004**

Thank you for your attention