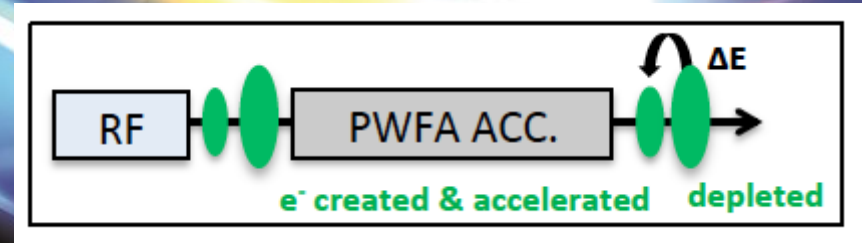
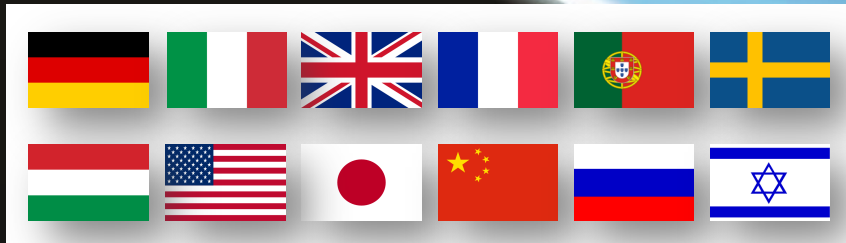


EUROPEAN
PLASMA RESEARCH
ACCELERATOR WITH
EXCELLENCE IN
APPLICATIONS



WP9 - Beam Driven Plasma Acceleration Summary Report

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WP9 Summary

- **Good results already achieved with R=2**
- **Pre-plasma electron beam optics (+WP5)**
 - Drive beam generation and delivery => **define injection energy and Driver Shape for High TR**
 - Witness beam generation and delivery => **Compare VB and MG with respect to beam quality**
 - Beam matching into plasma wakefield => **PM or Plasma Lens?**
- **Plasma module (+WP2+WP3)**
 - Plasma cell => **Investigation about laser induced ionization scheme and long capillary discharge options**
 - Witness beam acceleration =>
 - **Code Comparison!!!**
 - **Highest Transformer Ratio**
 - **Hosing Instability**
- **Post-plasma electron beam optics (+WP5)**
 - Driver and Witness beam extraction and dump concepts => **over focusing scheme preferred?**