

ALTA



joint venture

ALVEL

Localization of Know-How & International Cooperation in The Nuclear Fuel Cycle Area

Josef Běláč, managing director

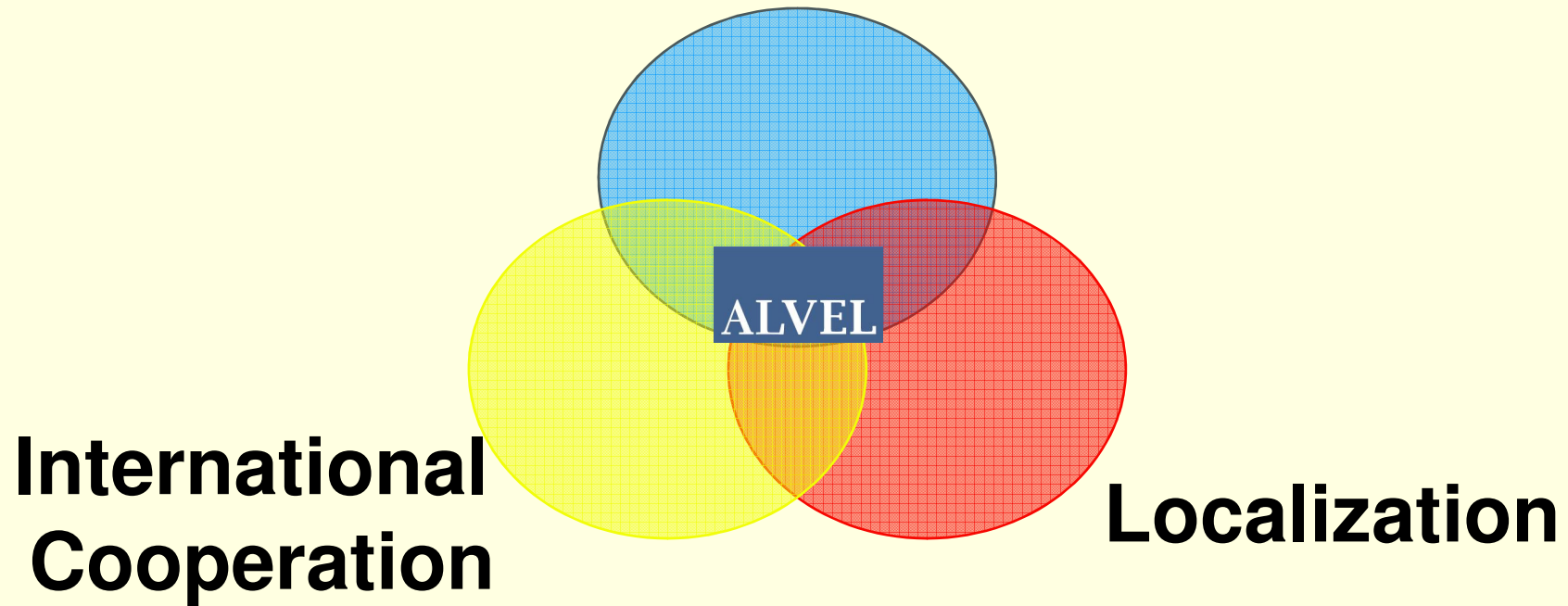
josef.belac@alvel.eu

www.alvel.eu

Outline of the presentation

ALVEL

Nuclear Fuel Cycle



Engineering and Technology Service Center

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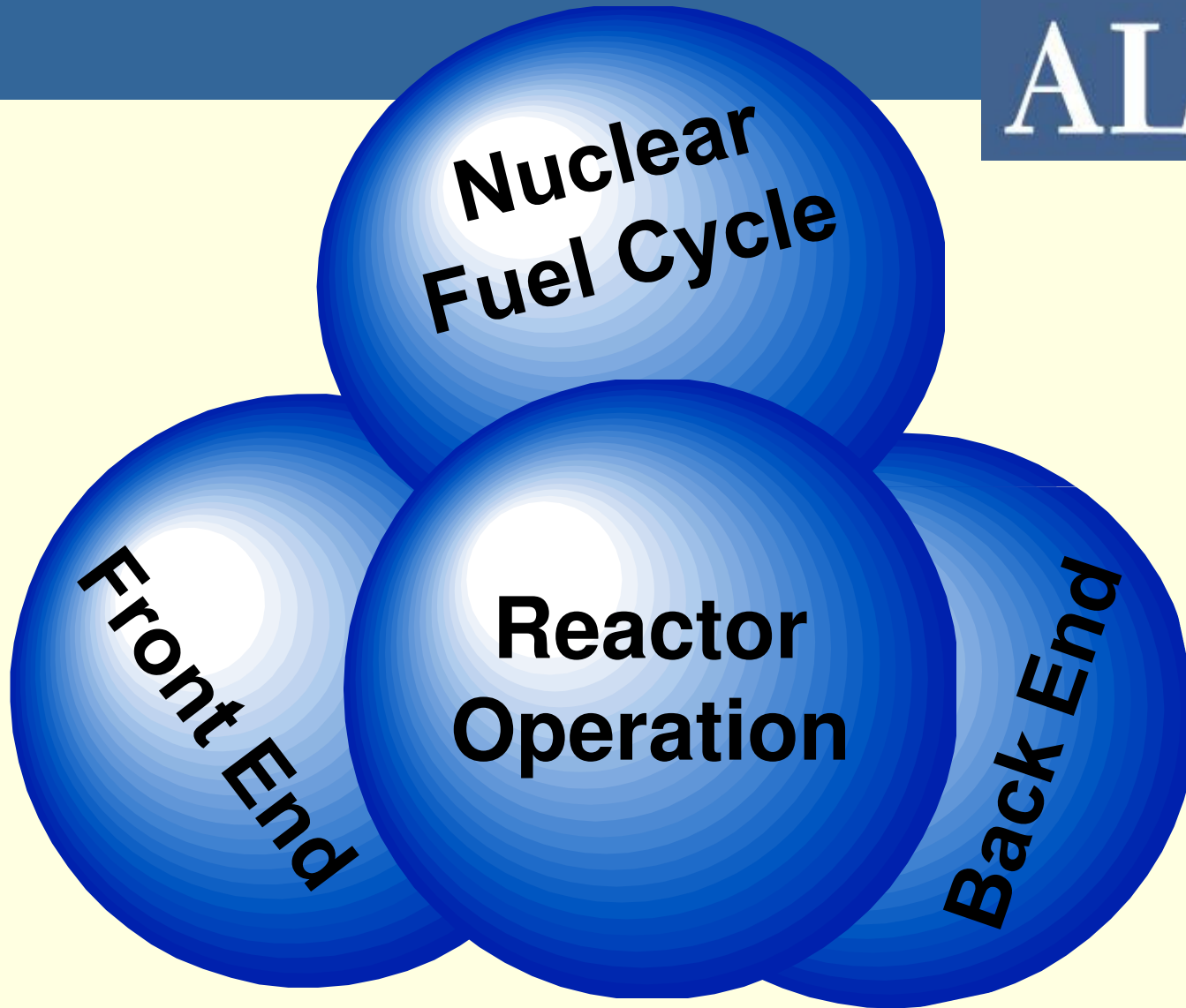
ALVEL, a.s. – Czech Rep. based joint venture of:

- **ALTA Invest (Czech Republic) private company**
- **TVEL (Russian Federation) ROSATOM**



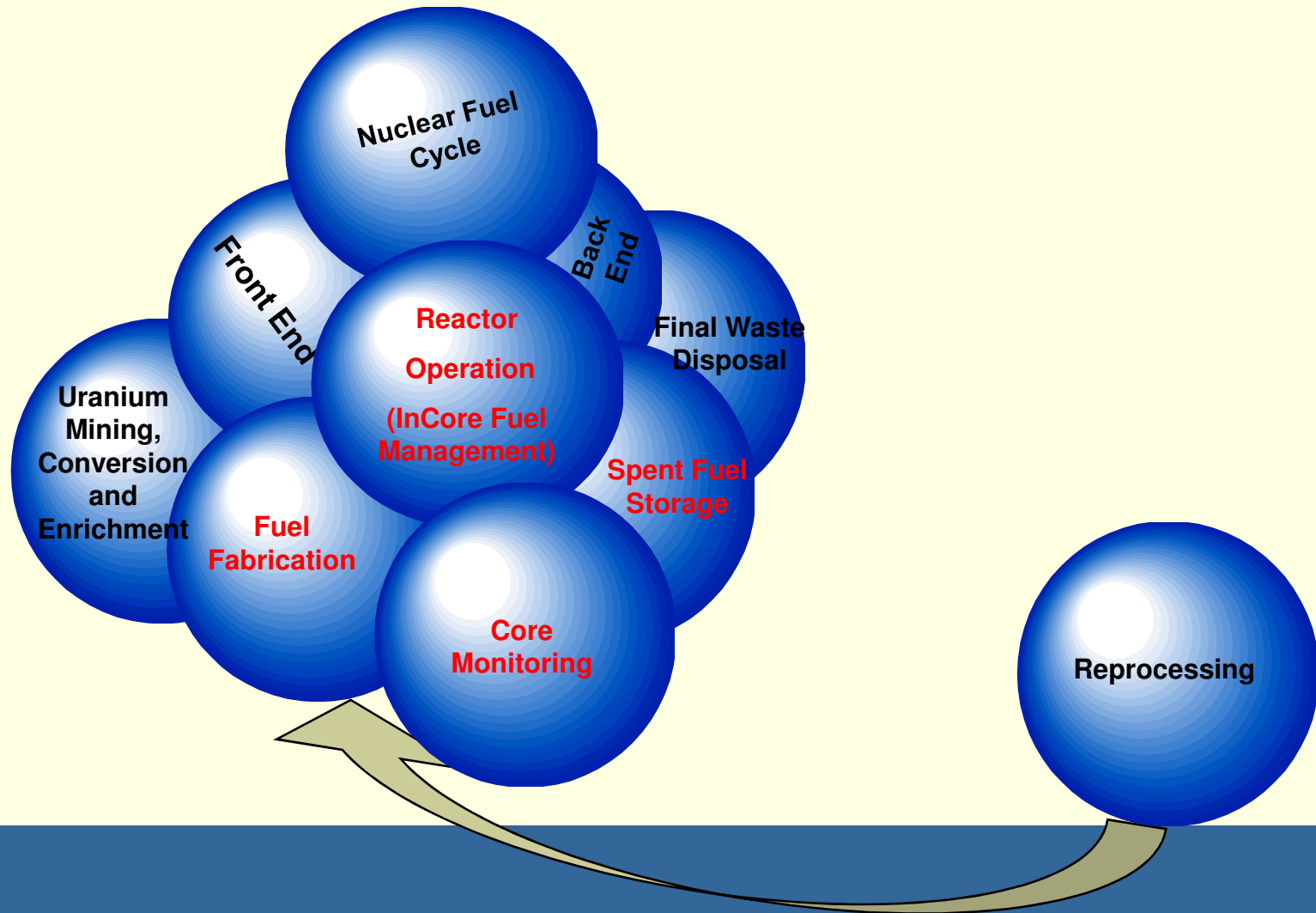
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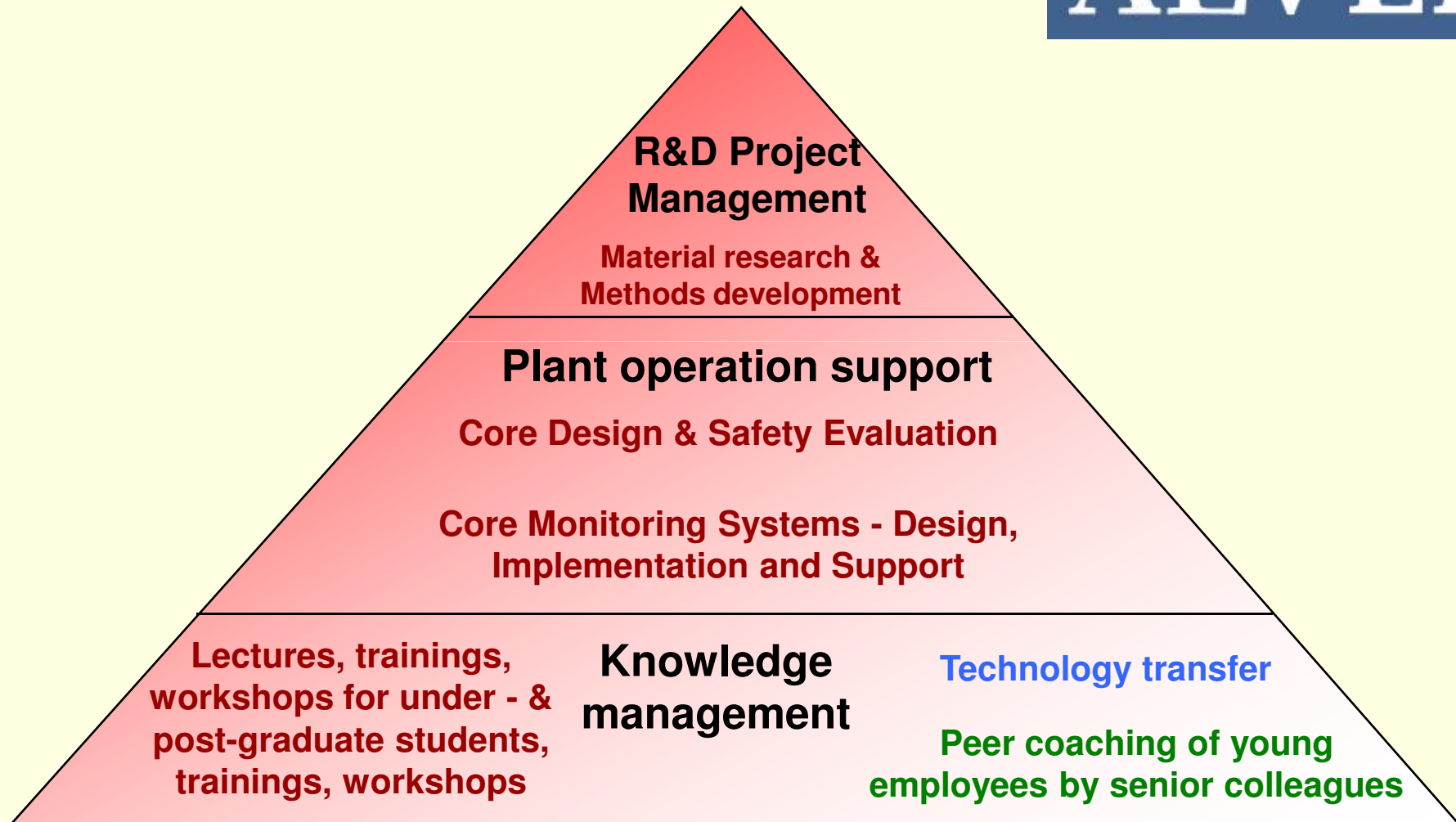
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ALVEL - International Cooperation in Nuclear Fuel Cycle

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Management of R&D and Tech. Transfer Projects: on the EU territory (Use the Best Available):

- **Material research for nuclear fuel applications**
- **Development and modernization of core monitoring systems**
- **Spent fuel storage**
- **Technology transfer**

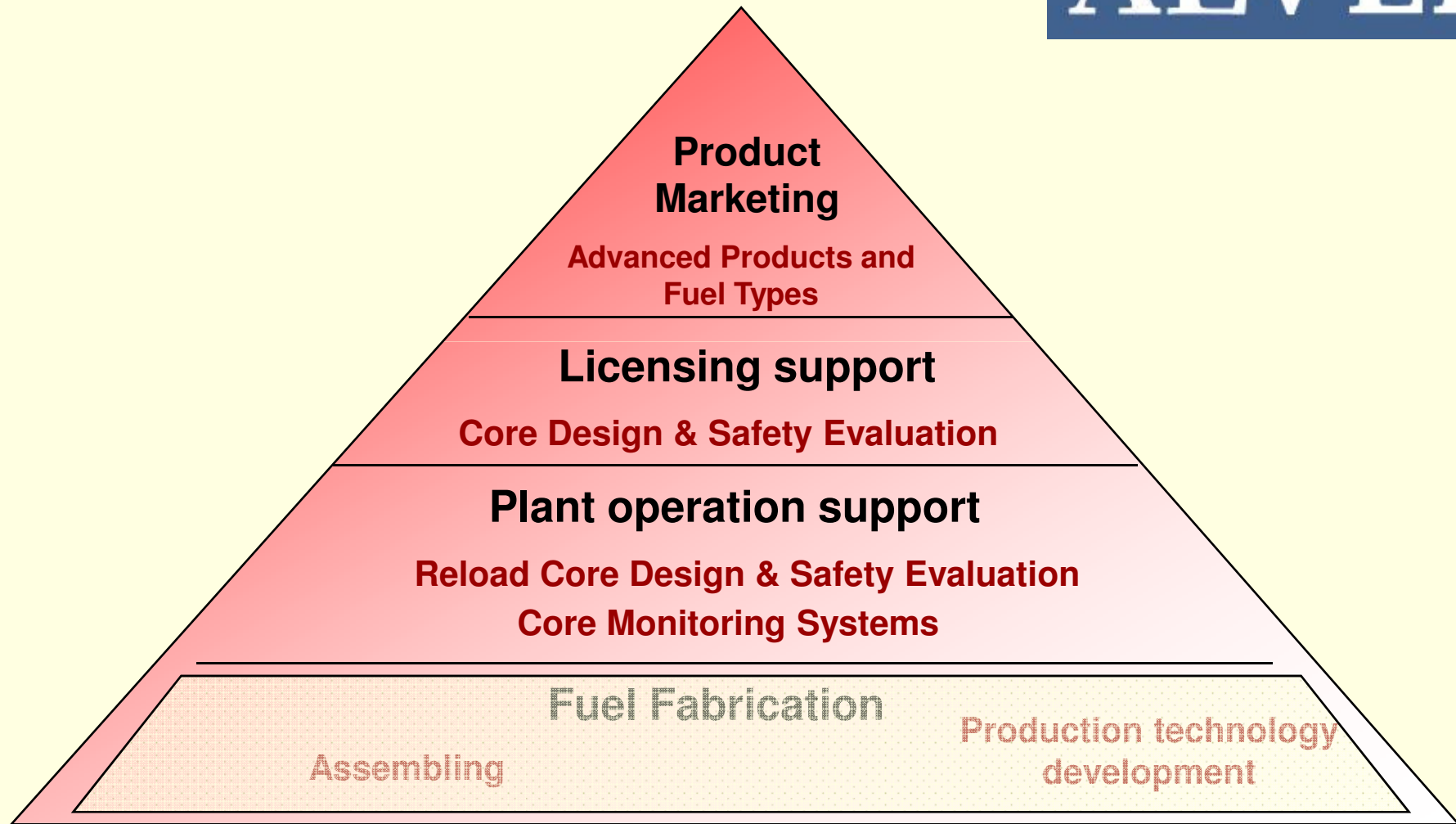
ALVEL – Current R&D Projects

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- **3D fuel behavior modeling for alternative fuel cladding alloy materials;**
- **Experimental research on irradiation induced growth of current and prospective fuel cladding and assembly structural materials from Zr alloys;**
- **High temperature oxidation and hydriding of zirconium alloy materials;**

ALVEL in Localization

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Marketing and licensing support:

**of TVEL production on European market, including
VVER/PWR fuel segment;**

- **VVER 440 (Gd2, Gd2M, Gd2M+, Gd3);**
- **VVER 1000/1200 fuel (TVSA-T, TVSA, TVS-2M);**
- **PWR – (TVS KVADRAT);**
- **Fuel related services.**

Engineering and Technology Service Center

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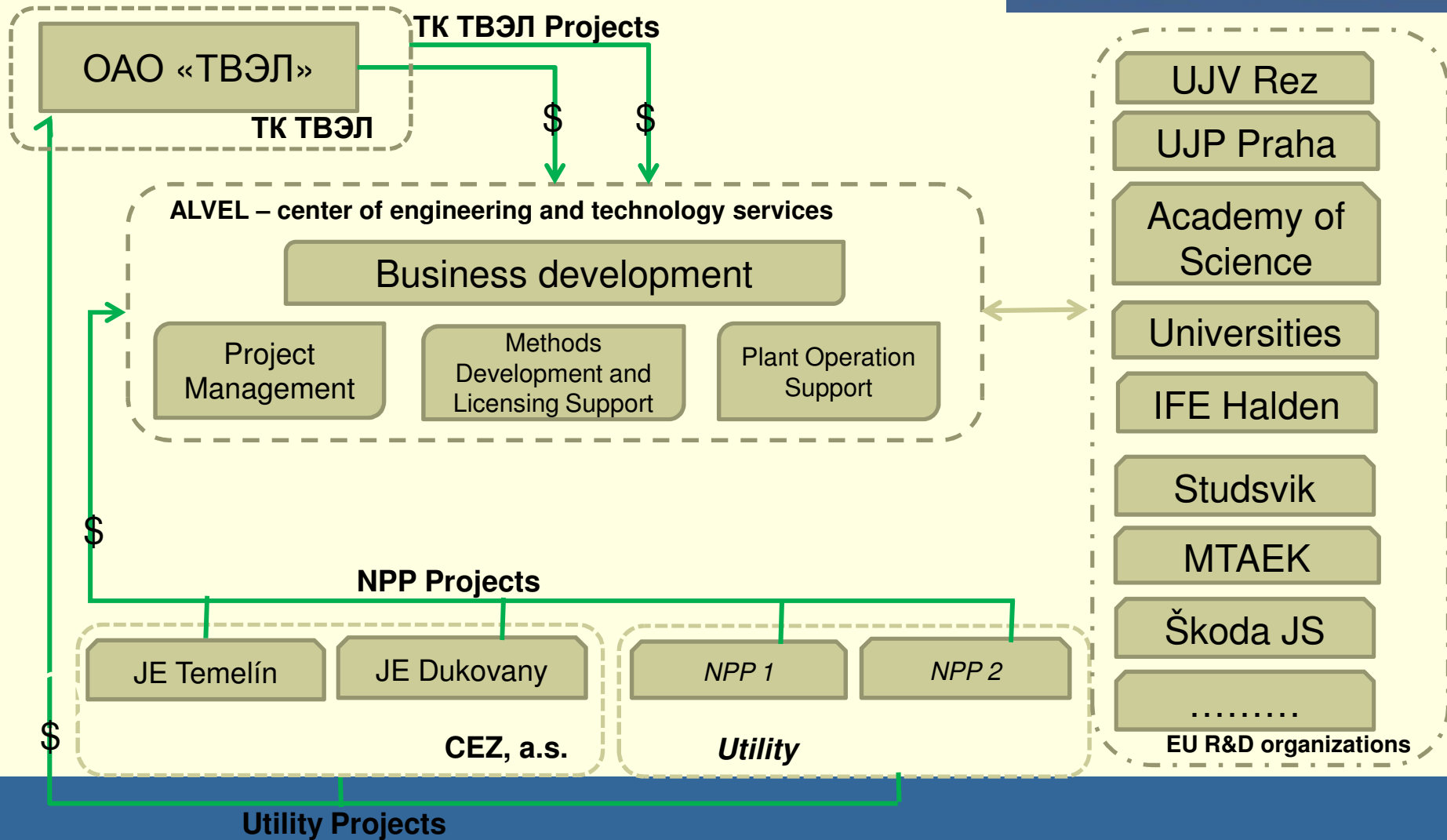
Localization of services:

for NPPs on the territory of EU (expanding from CZ and SK);

- plant operation engineering support;
- reload design and safety evaluation;
- core monitoring;
- licensing support of new and inovated fuel designs.

ALVEL Business model

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ALVEL for EU customers - Utilities

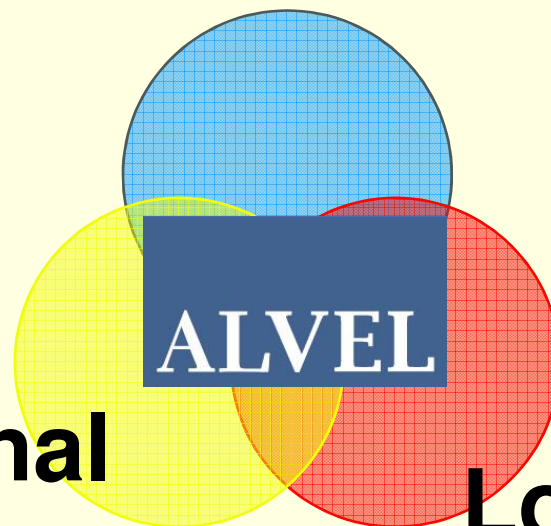
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Thank You for Your Attention

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Nuclear Fuel Cycle



**International
Cooperation**

Localization

ALVEL, a.s., Štefánikova 41, 602 00 BRNO, Czech Republic

WWW.alvel.eu, E-mail: office@alvel.eu, Phone: +420 541 550 650