



РОСАТОМ



ТОПЛИВНАЯ КОМПАНИЯ РОСАТОМА

ТВЭЛ

ОАО «ТВЭЛ» - российский производитель ядерного топлива

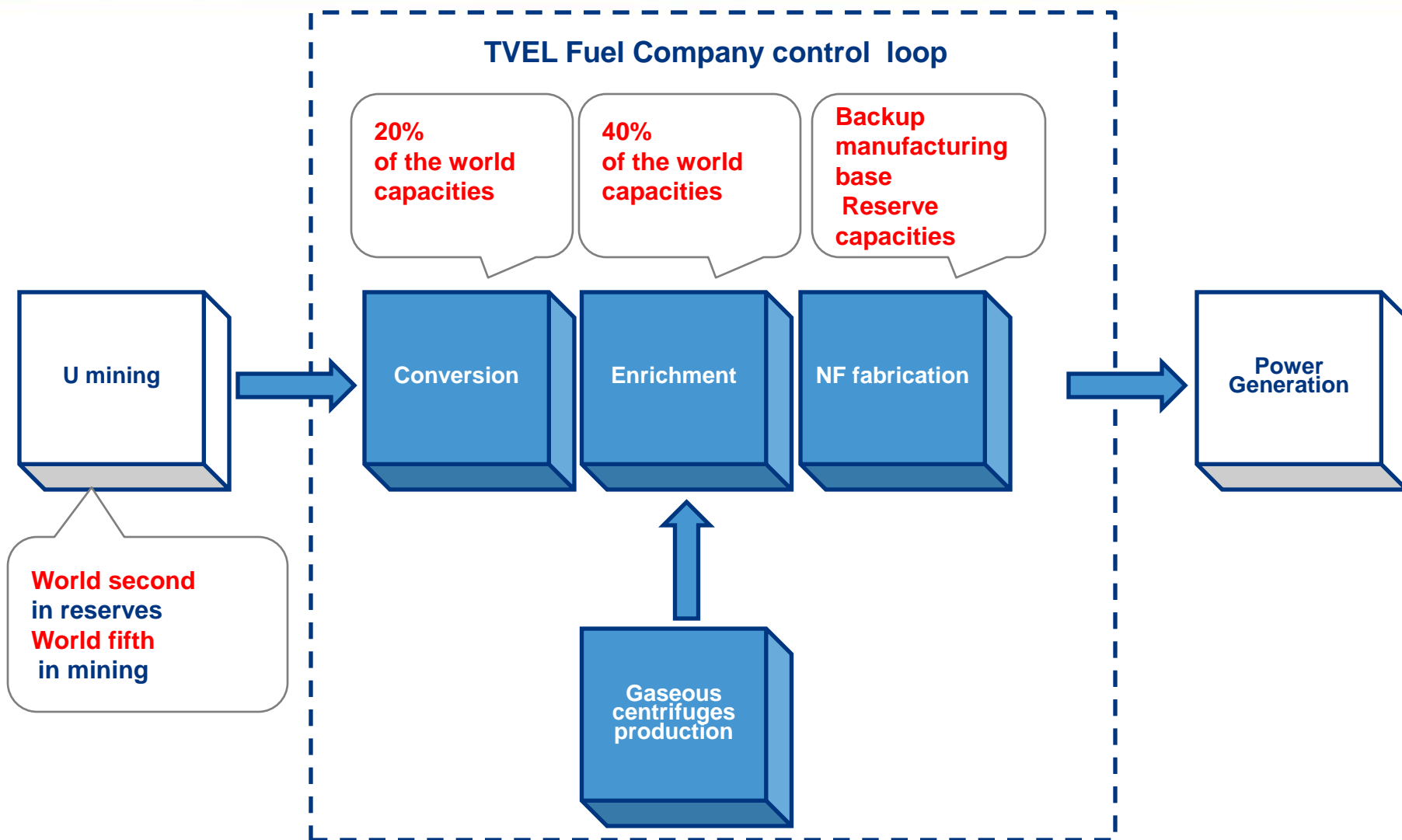
Integrated offer NF & Back End services of the Nuclear Fuel Cycle

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Vice-president of JSC «TVEL»

June 8, 2011

TVEL FUEL COMPANY TODAY

Reliable uranium sources and enhanced manufacturing base



Competences in NF fabrication for all reactor types

	VVER	RBMK	BN	BWR	PWR	PHWR
FA	Confirmed	Confirmed	Confirmed	In cooperation with AREVA	In cooperation with AREVA/ TVS-KVADRAT	Perspective (in the process of qualification)
Pellet	Confirmed	Confirmed	Confirmed	In cooperation with AREVA	In cooperation with AREVA/ TVS-KVADRAT	Confirmed
Powder	Confirmed	Confirmed	Confirmed	In cooperation with AREVA	In cooperation with AREVA/ TVS-KVADRAT	Confirmed
Zr- components	Confirmed	Confirmed	Confirmed	Perspective (in the process of qualification)	TVS-KVADRAT	Perspective (in the process of qualification)
	VVER	RBMK	BN	BWR	PWR	PHWR

Confirmed
 Perspective (in the process of qualification)

Diversification of delivery modes

Transport packing sets (TPS):

- Adapted for transportation by all types of transport;
- The only TPS in the World that are tested on a full scale (incl. acceleration 90 m/s);
- Equipped with shock sensor (independent control of delivery terms adherence).



Delivery mode



Special conditions



Method of payment



Specifications



by Air



by Railroad



by Sea

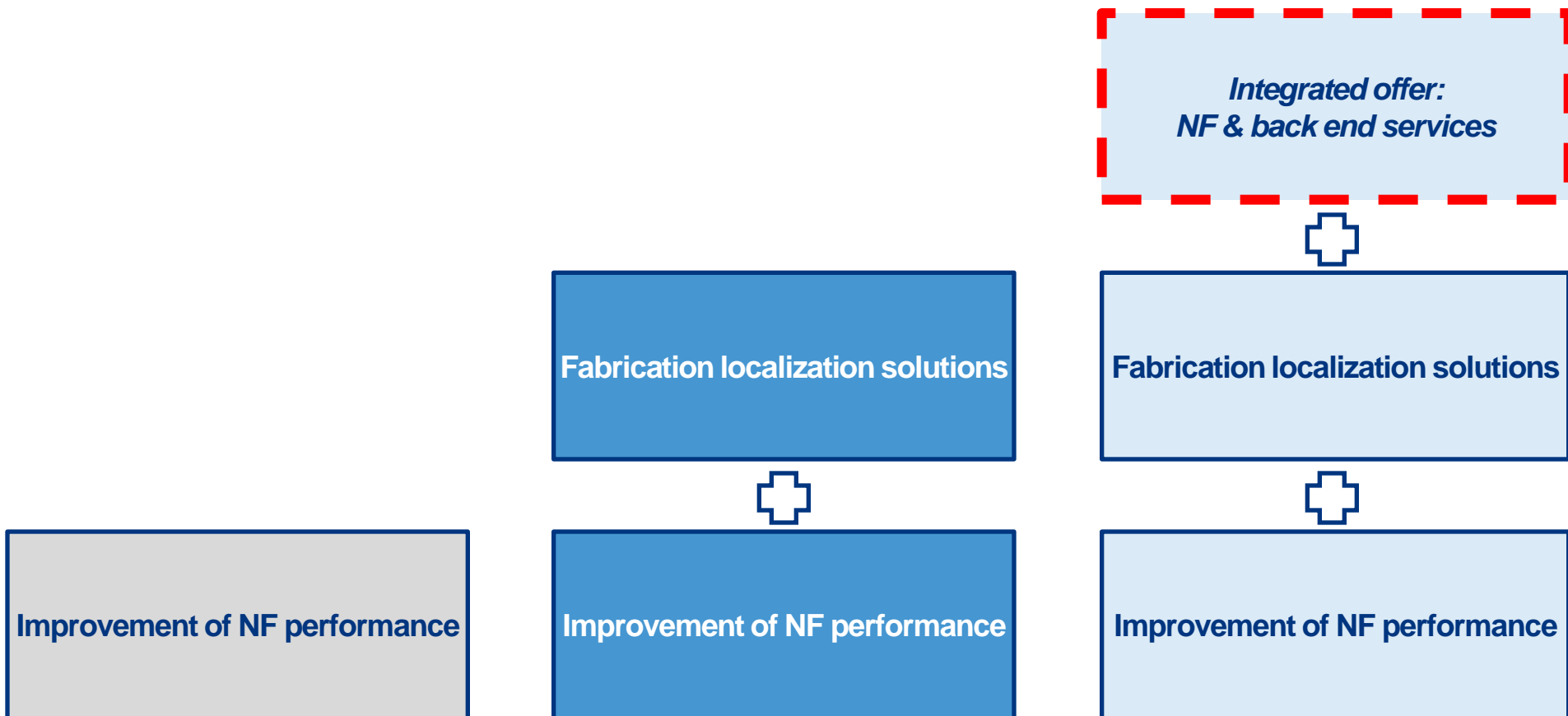


Following enhanced Customers' demands

yesterday

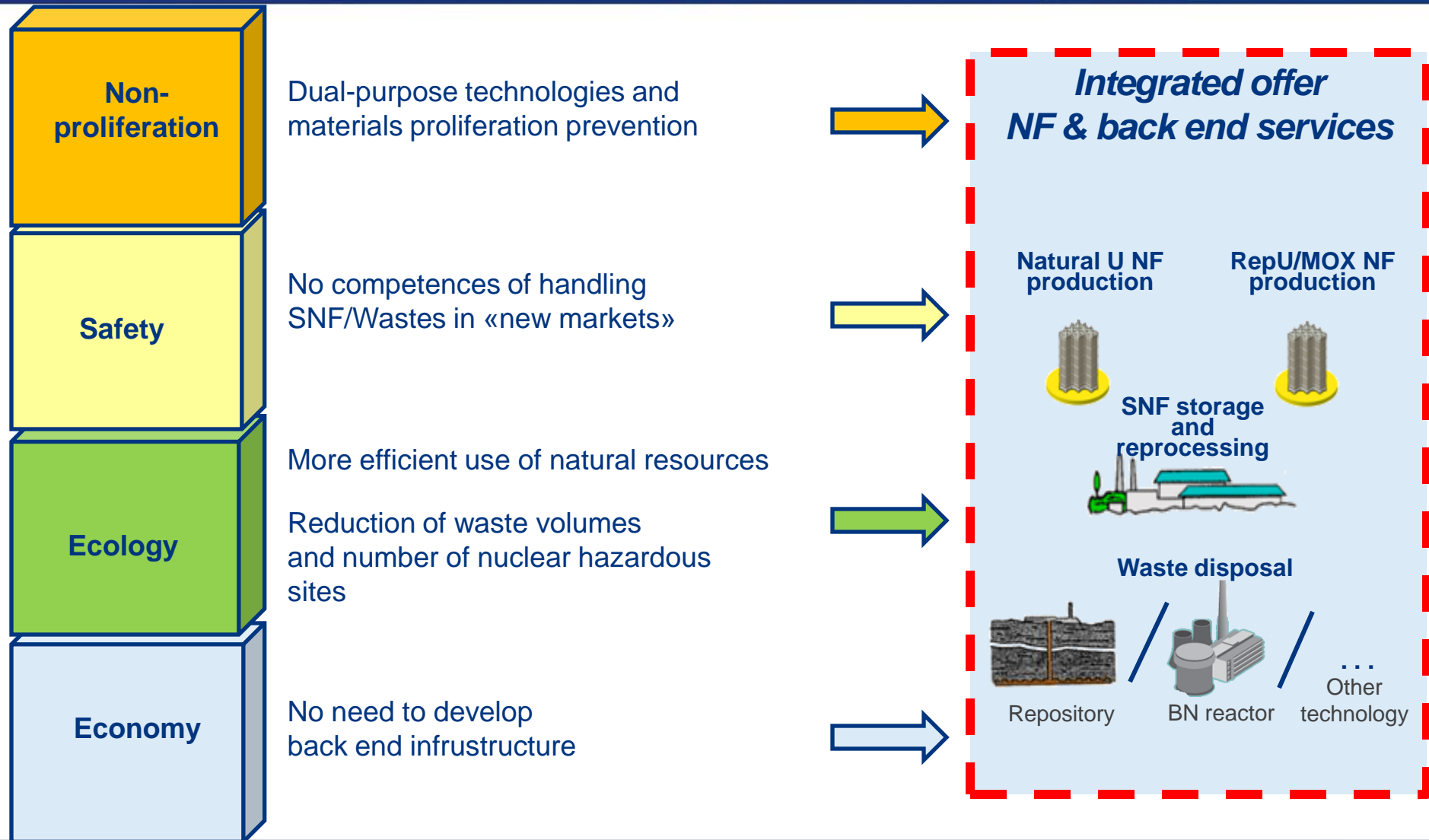
today

tomorrow



INTEGRATED OFFER: NF & BACK END SERVICES

Incentives for integrated offer



Back end competences

SNF REPROCESSING

STORAGE

**PRODUCTS OF REPROCESSING
RECYCLING**

«Mayak»

Reprocessing of irradiated fuel assemblies :

- NPPs with reactors:
 - VVER-440,
 - BN-600,
- transport nuclear reactors
- research reactors

GKhK

Storage of irradiated fuel assemblies from NPPs

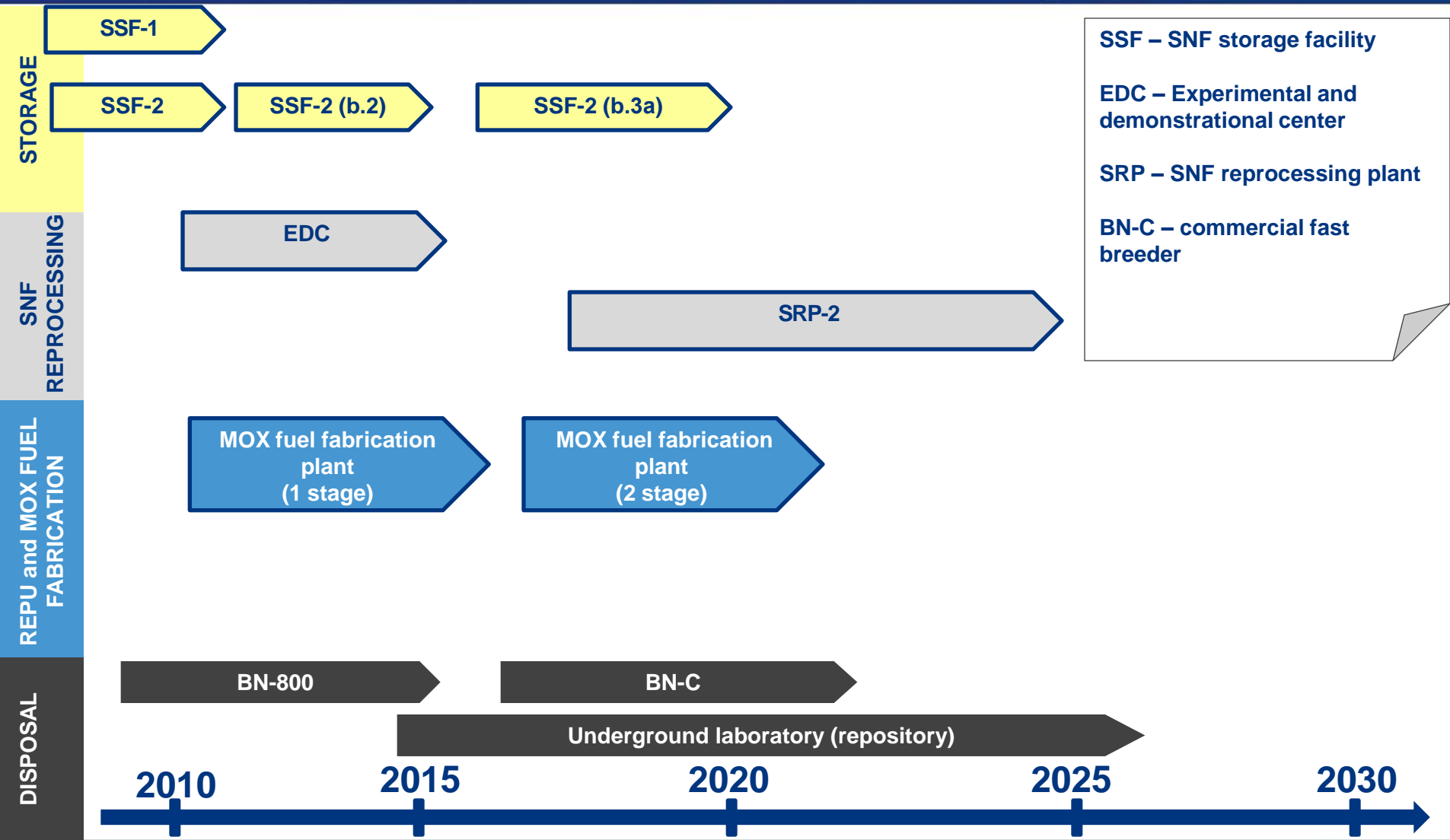
- with reactors:
- VVER-1000,
 - RBMK
- for further reprocessing

MSZ/NCCP

REPU NF fabrication for reactors

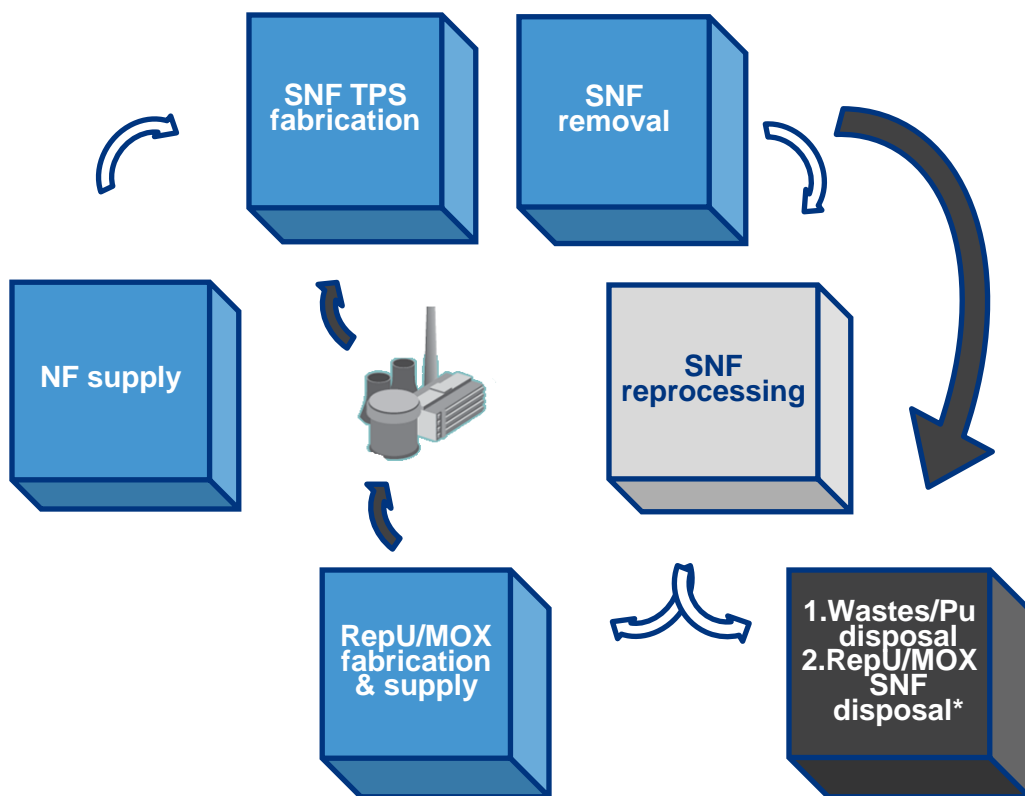
- PWR,
- BWR
- RBMK
- VVER

Back end competences development program

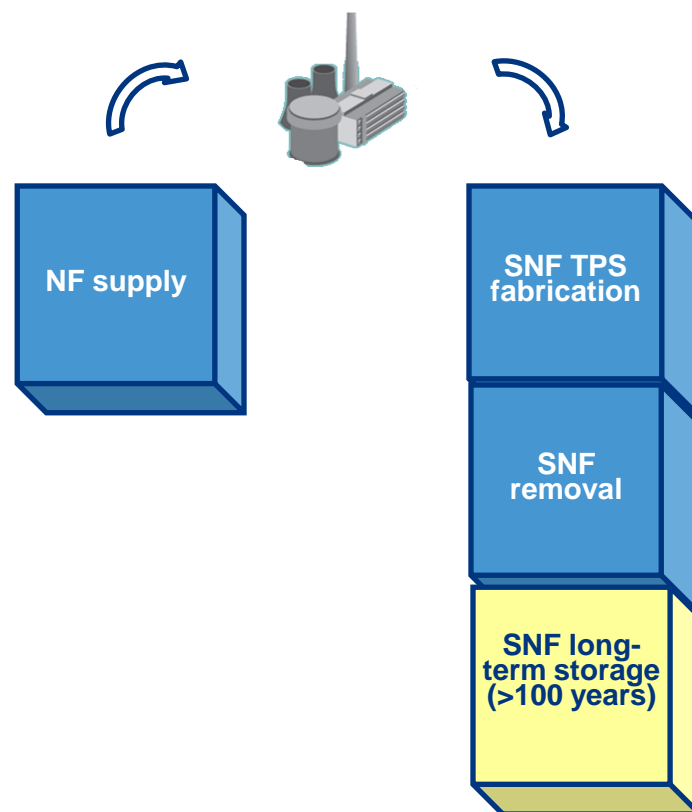


Integrated offer: two main options

«Once-through cycle»



«Wait-and-see» policy



Important condition

**RF legislation allows to import SNF
for reprocessing
without return of wastes
only if the fuel is of Russian origin**

**Your questions and proposals
regarding the integrated offer
can be forwarded
to the following address:
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Your feedback will be highly appreciated!