

From where we start: The current state of play of EFS in Europe

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Key elements for an EU EFS program

Early and continuous dialogue between sponsors and regulators

Processes for **iterative changes** for both **device design or study design** during EFS

Limited **number of patients** (staged enrolment), adequately **informed and engaged** in the research

Experienced clinical sites (patient populations, ethical and legal issues, contracting)

Potential **benefits outweigh risks**

EFS are feasible in the EU

EFS in the EU: feasible but not yet facilitated

MDR and International Standards mainly focus on general clinical investigations (CIs)

MDGC guidance theoretically allows similar flexibility to the US EFS program

Existing templates and standards for general CIs only partly applicable to EFS and rarely address EFS-specific needs

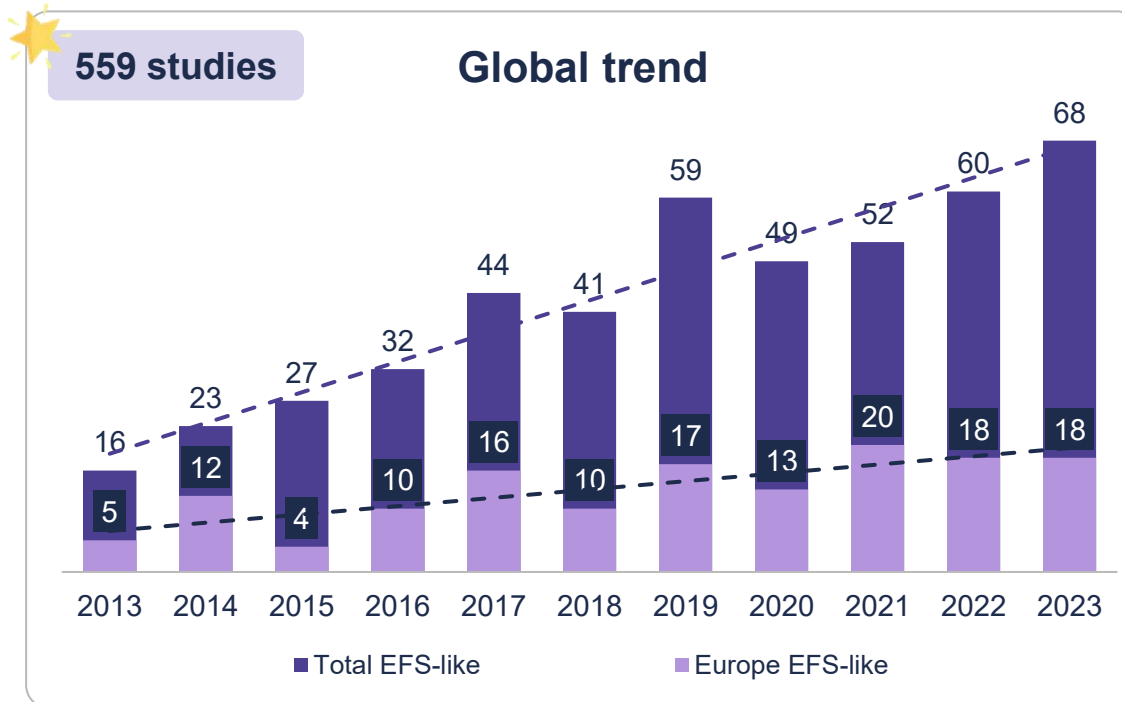
Limited detail and lack of EFS provisions make applications difficult

Urgent need for EFS-tailored EU guidance and templates



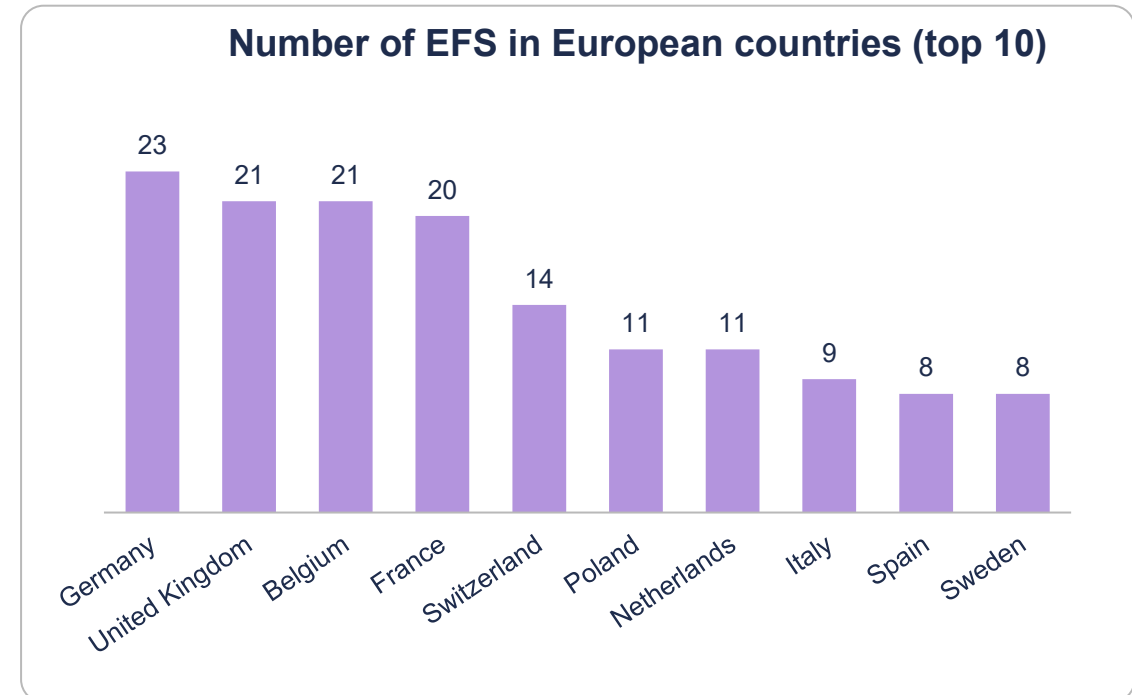
During interviews, NCAs reported a lack of formal EFS definition and homogeneous assessments across Member States

EFS are implemented in the EU



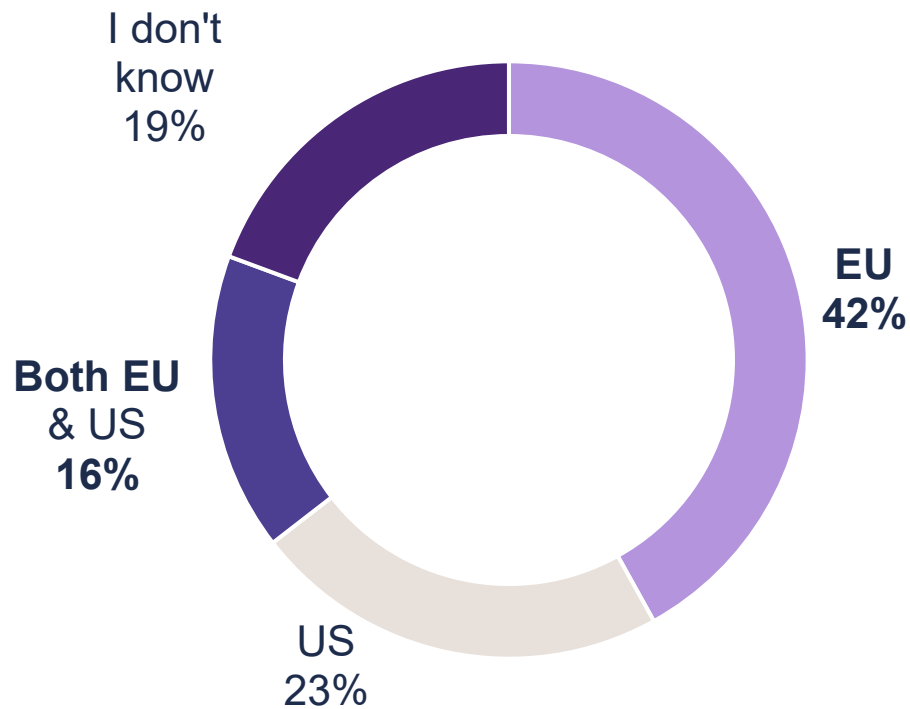
- In 2013-2024:
- 24% of EFS conducted in **Europe only**
 - 4% of EFS conducted in **Europe and other jurisdictions**

- EFS address different patient conditions:
- 46% Diseases of circulatory system
 - 15% Endocrine, nutrition and metabolic diseases
 - 11% Diseases of the nervous system

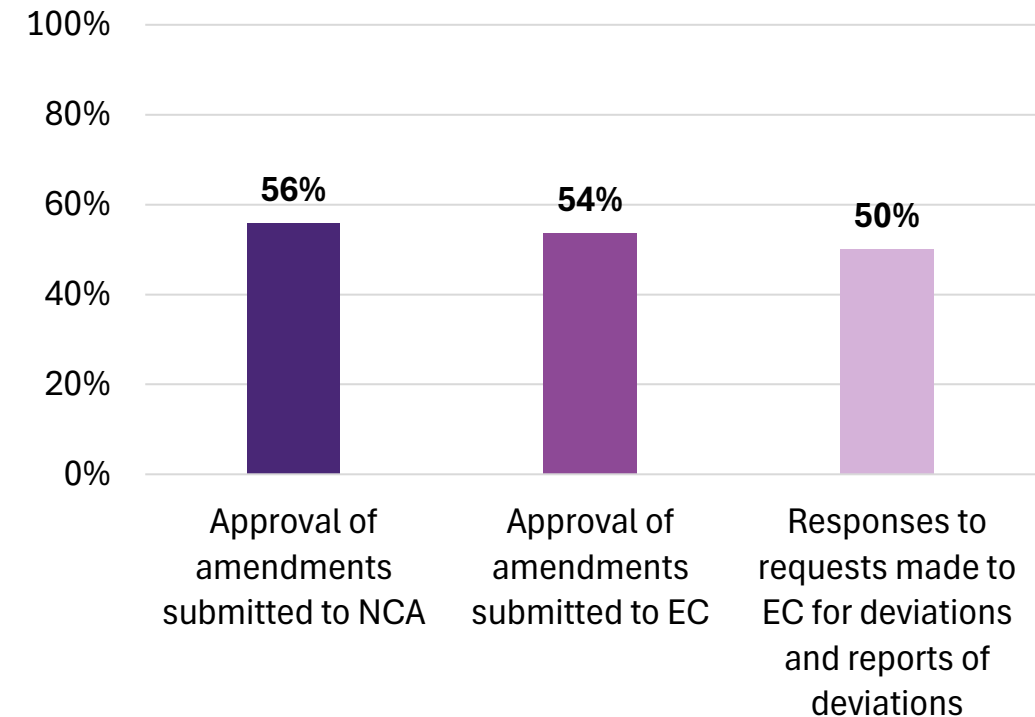


Is the EU attractive for clinical investigations?

Sponsors' favourite location for conducting pilot clinical investigations?

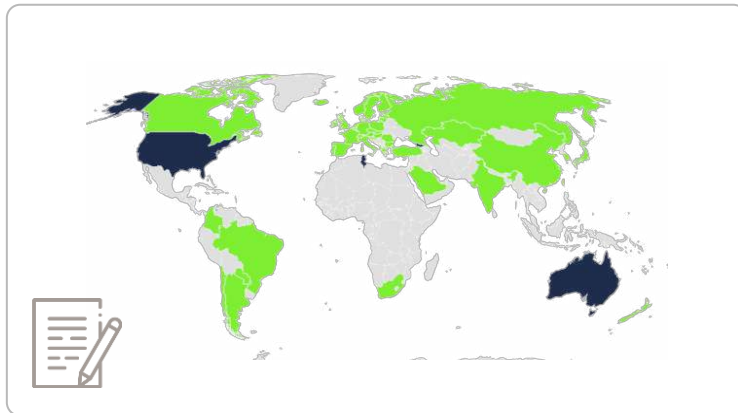


Sponsors' level of satisfaction with EU NCA and EC response times during the conduct of the study

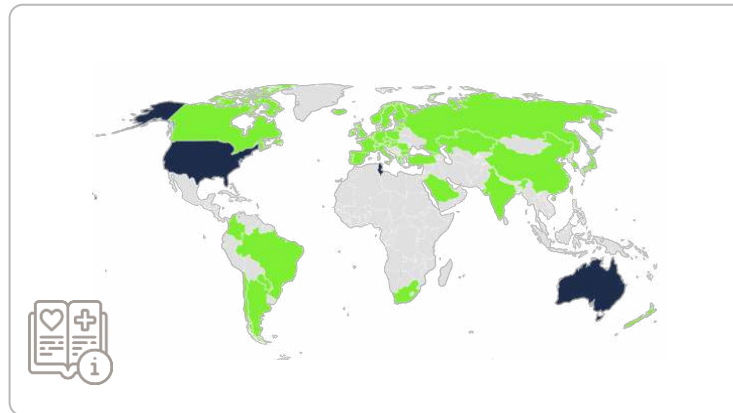


Attractive, but more documents required

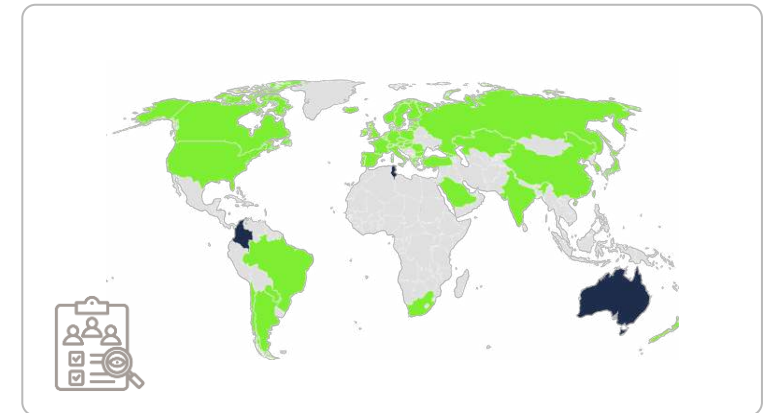
Application Form



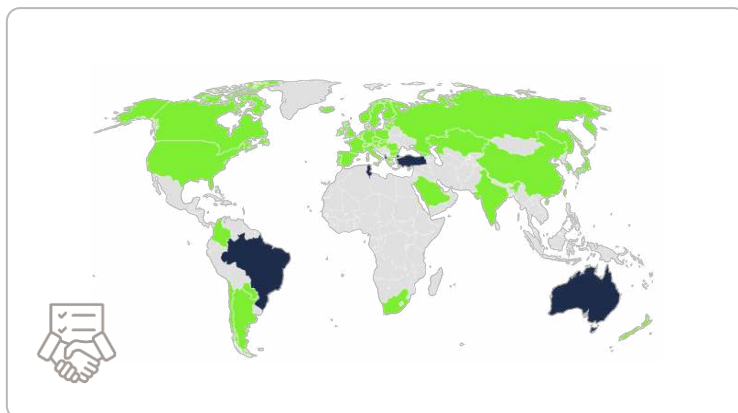
Investigator's Brochure



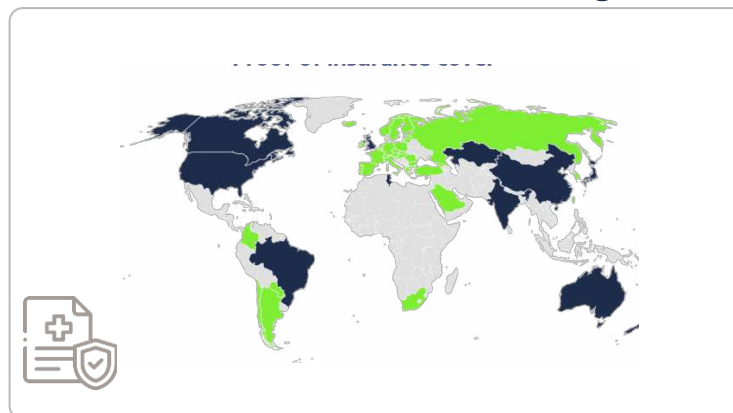
Clinical Investigation Plan



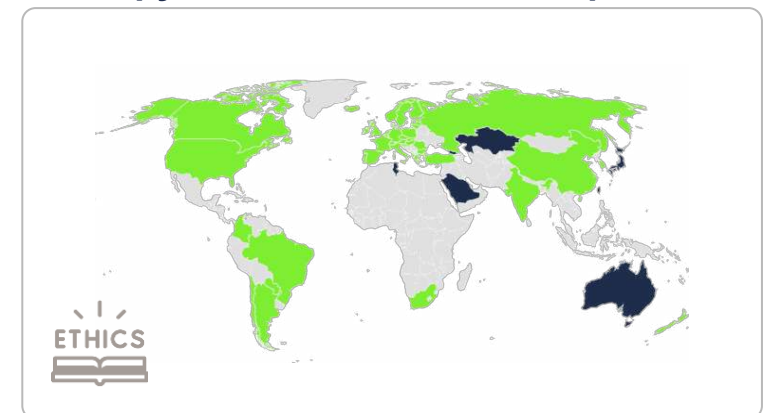
Informed Consent Form



Proof of Insurance Coverage

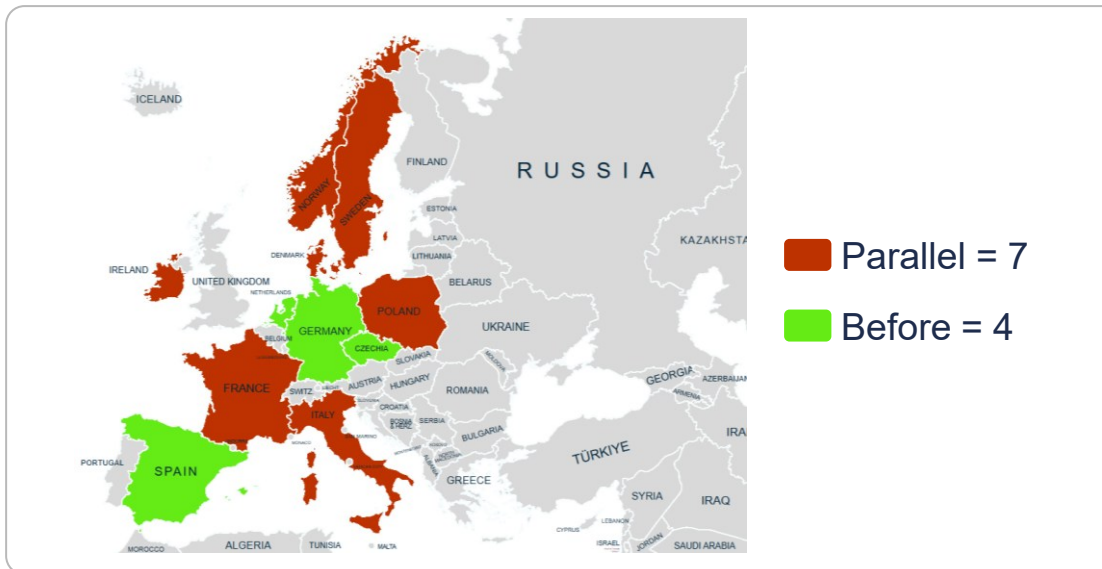


Copy of Ethics Committee Opinion

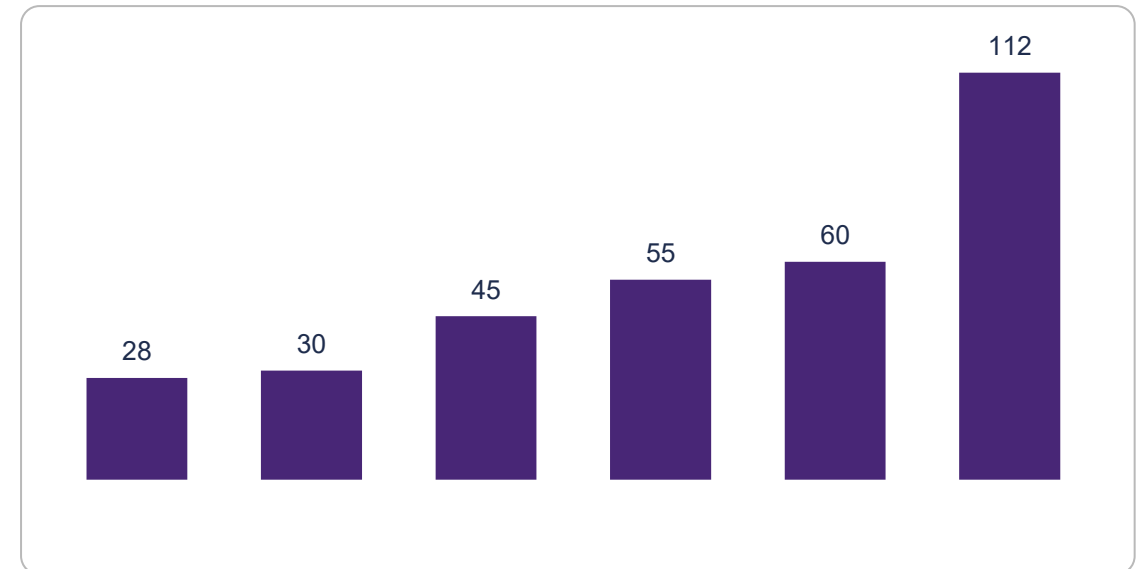


Fragmented ethics approval

Timing of ethics approval process with respect to NCA



Maximum ethics approval duration (calendar days)



During interviews, NCAs reported that the diverse ethics approval models across EU generate struggles and underscore need for harmonized model



“There are different approaches to ethics [approvals], and that is a problem.”

“A more harmonised approach to ethics [approval] would be very helpful.”

Lack of standardised dialogue

NCA's report:

- **63%** offer the possibility of **dialogue** through 'pre-submission' or 'innovation' meetings or scientific advice, **32%** do not.
- Dialogue may occur either **before** submission, **during** assessment or **after** assessment has been completed.
- Dialogue relates to **administrative aspects** of submissions (all NCAs), the extent of **pre-clinical testing** or advice on **study design** (33% each).

**82% of NCA believe
dialogue improves
quality of clinical
investigation application.**

NCA interviews revealed that dialogue improves assessment efficiency and speed through NCA adaptability and sponsor cooperation

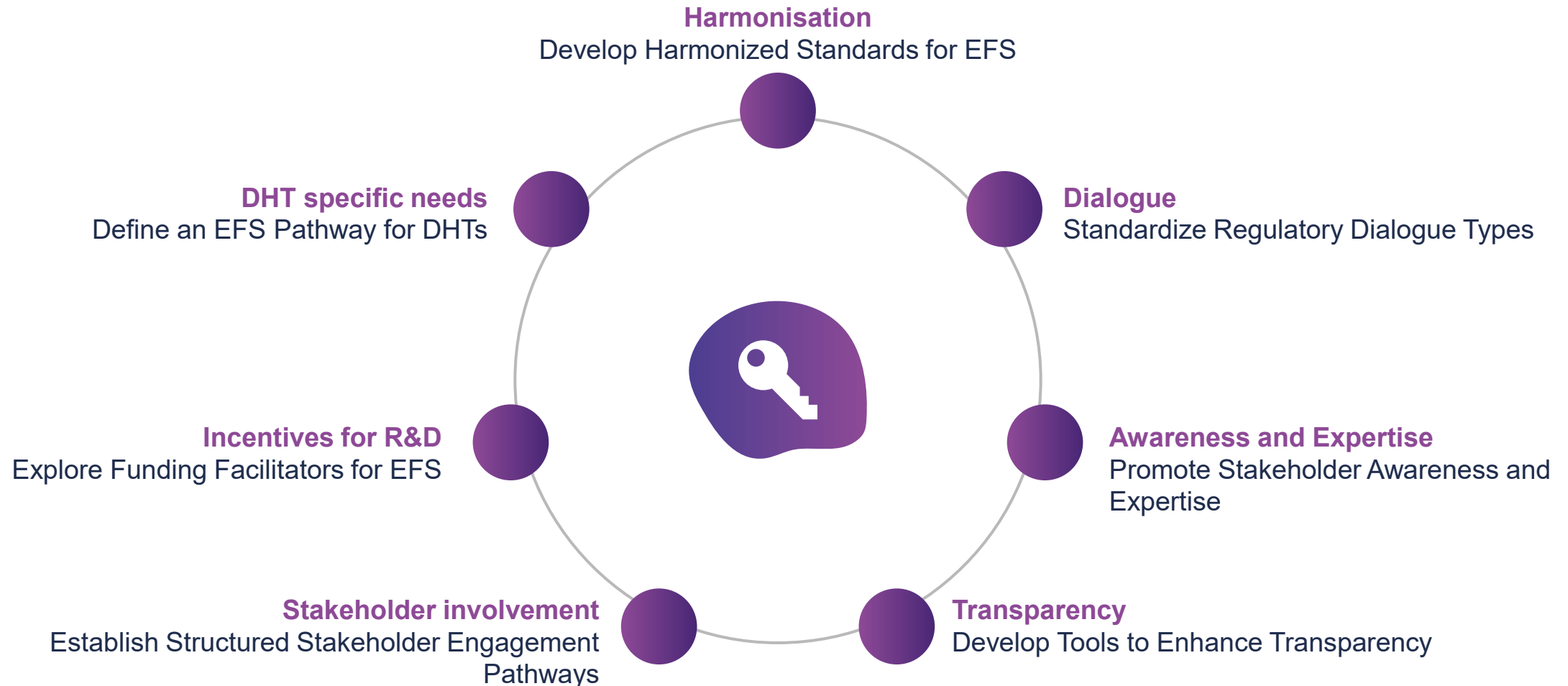


“when there was a scientific advice, the solution and the assessment [was] quicker [and] easier for both sides.” “If [sponsors] are cooperative, they basically speed up our evaluation.”

What challenges should be addressed to develop an EU EFS Program?



7 Key Recommendations





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Thank you!

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