The NICE Evidence Standards Framework for Digital Health Technologies

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NICE evidence standards framework (ESF)

- Commissioned by NHSE in Spring 2018, expanded and updated 2021/22
- Trusted and respected set of standards for evaluating digital health technologies (DHTs).
- Describes the evidence needed for DHTs (including AI that may change over time) to be commissioned in the NHS and care system



innovators understand the level of evidence they need to produce, so evidence generation plans are faster and more cost-effective.



NHS can commission, deploy and scale clinically and cost-effective digital health tools that meet demand.



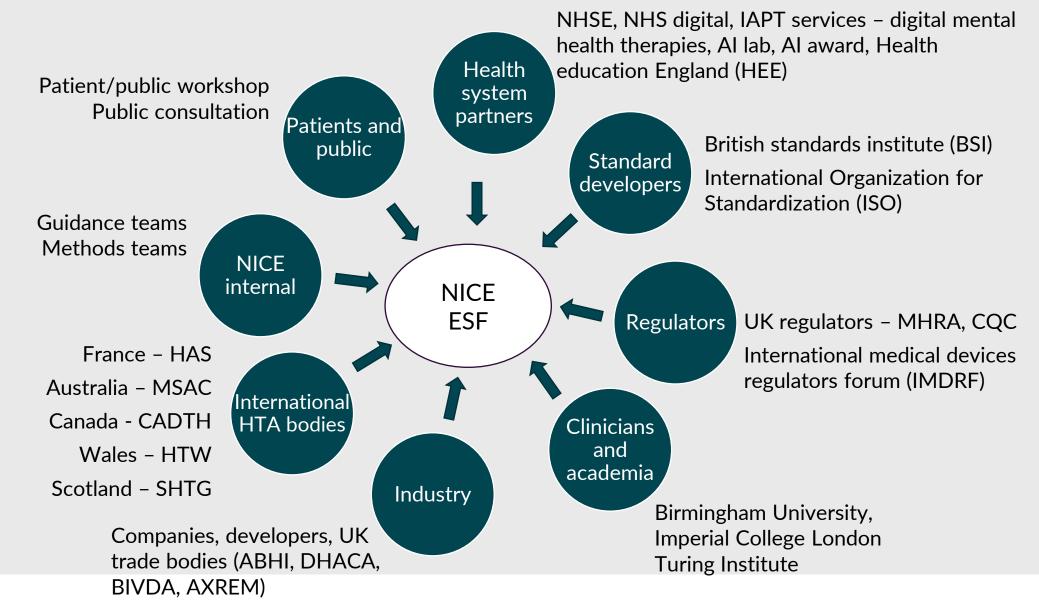


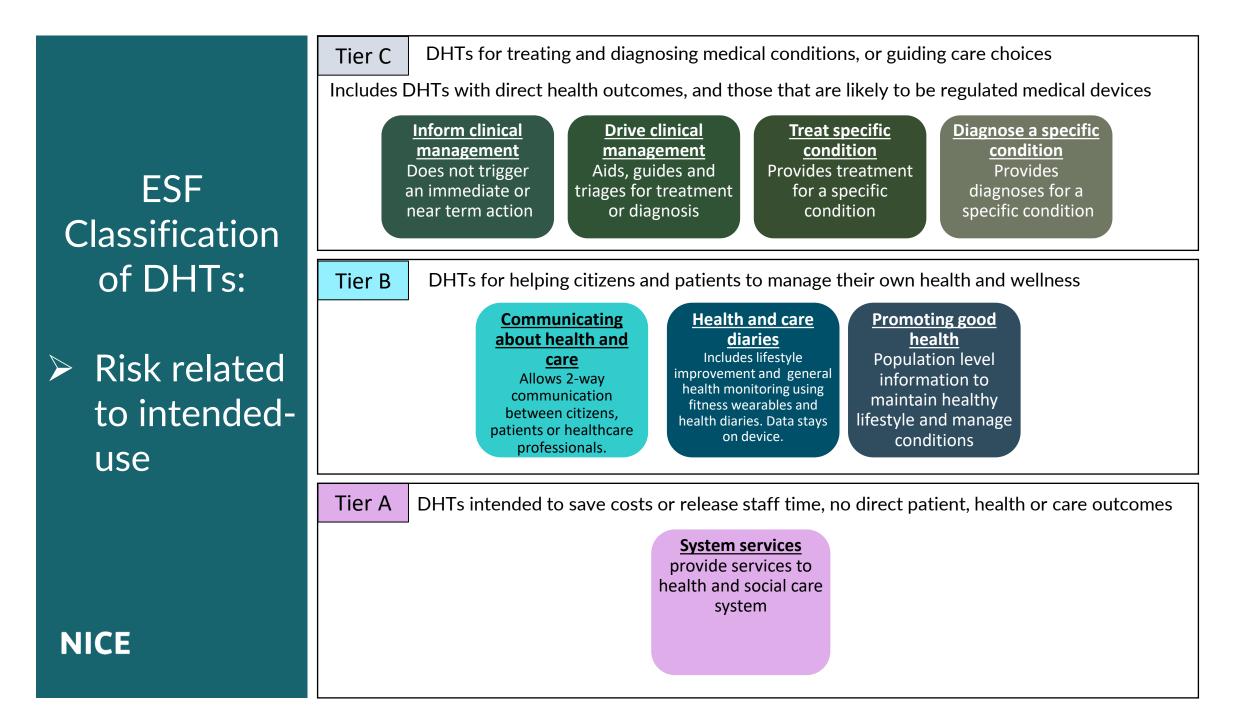




Working in partnership in digital ecosystem

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Summary of NICE ESF standards

Design factors					
Standard			Applies to DHTs in:		
1	Incorporate user acceptability in the design of the DHT	А	В	С	
2	Consider environmental sustainability	А	В	С	
3	Consider health and care inequalities and bias mitigation	А	В	С	
4	Embed good data practices in the design of the DHT	А	В	С	
5	Define the level of professional oversight	А	В	С	
6	Show processes for creating reliable health information		В	С	
7	Show that the DHT is credible with UK professionals		В	С	
8	Provide safeguarding assurances for DHTs where users are considered to be in vulnerable groups, or where peer-to-peer interaction is enabled		В	С	

Describing value				
Standard		Applies	to DHT	s in:
Describe the intended purpose a population	nd target	А	В	С
Describe the current pathway or	system process	А	В	С
Describe the proposed pathway using the DHT	or system process	А	В	С
Describe health and system impa cost and resource impacts compa			В	С

New or amended standards

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Demonstrating performance Standard Applies to DHTs in: Provide evidence of the DHT's performance to 13 С support its claimed benefits Additional evidence for critical conditions or 14 С functions Show real-world evidence that the claimed 15 А В С benefits can be realised in practice The company and evaluator should agree a plan for 16 measuring changes in the DHT's performance over В Α С time The DHT should comply with relevant safety and 17 В А С quality standards

Delivering value

Standard		Applies to DHTs in:		
18	Provide a budget impact analysis	А	В	С
19	Show sensitivity analysis to explore uncertainties	А	В	С
20	For DHTs with higher financial risk: provide a cost- comparison or cost-utility analysis	А	В	С
21	Agree a data collection plan to show value	А	В	С

Deployment considerations				
	Standard	tandardApplies to DHTs in:		
	Ensure transparency about requirements for deployment	А	В	С
	Describe plans for communication, consent and training processes in place to allow the DHT to be understood by end users	А	В	С
	Ensure appropriate scalability	А	В	С

Relevant to AI risk considerations

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Thank you.

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