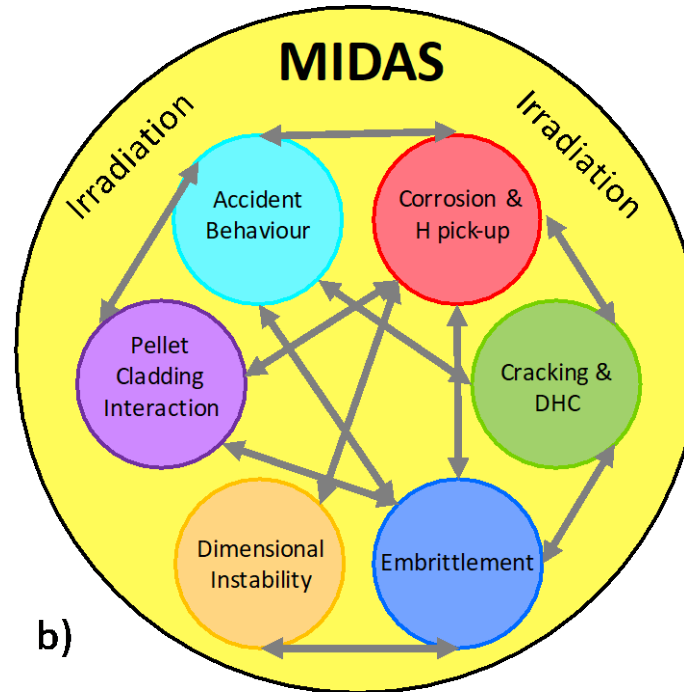
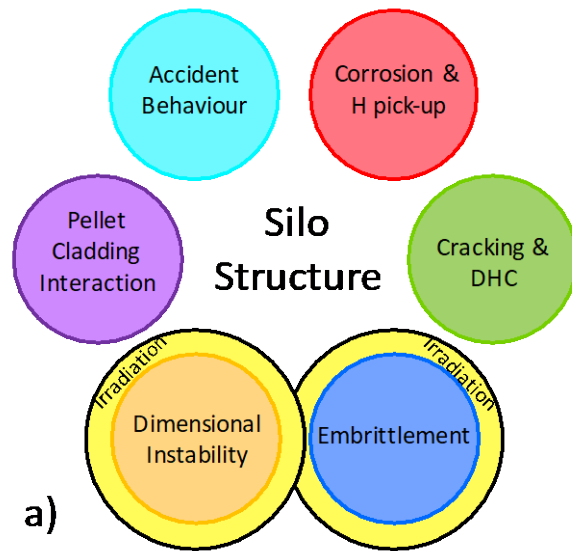


# MIDAS – Mechanistic understanding of Irradiation Damage in fuel ASsemblies

The way we work now



ASTM conference

BOR-60

Material placed in reactor

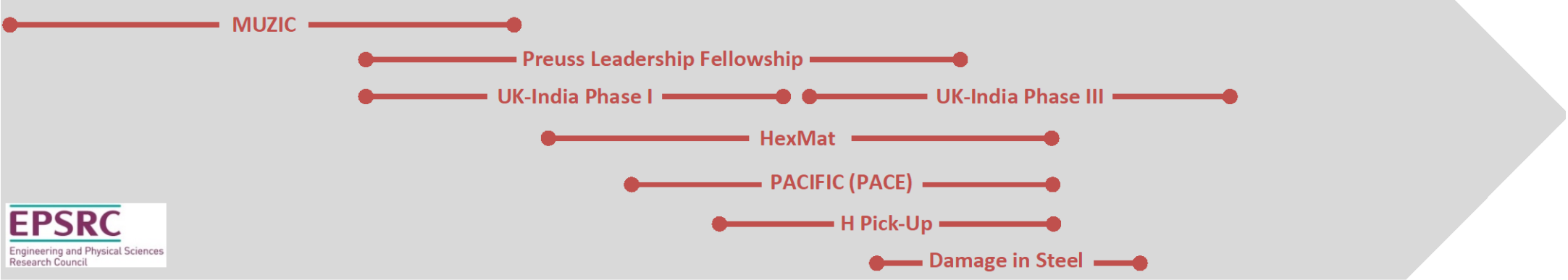
Material removed from reactor

Material begins Russia-UK transfer

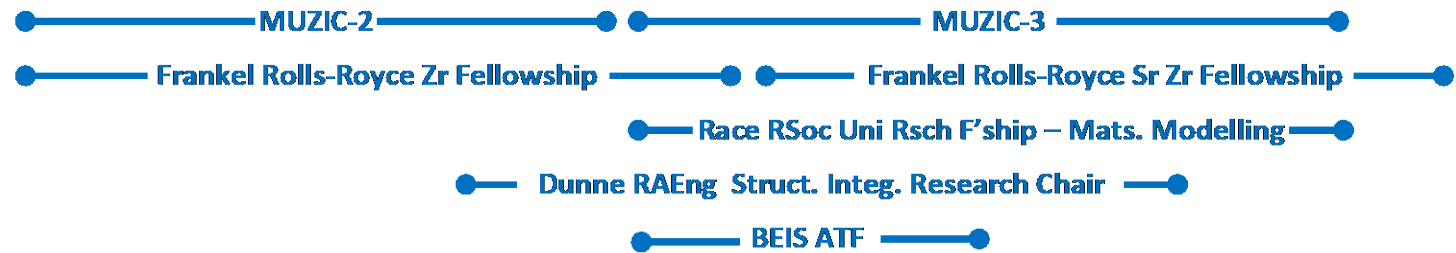
Material arrives in UK (NNL), via CEA

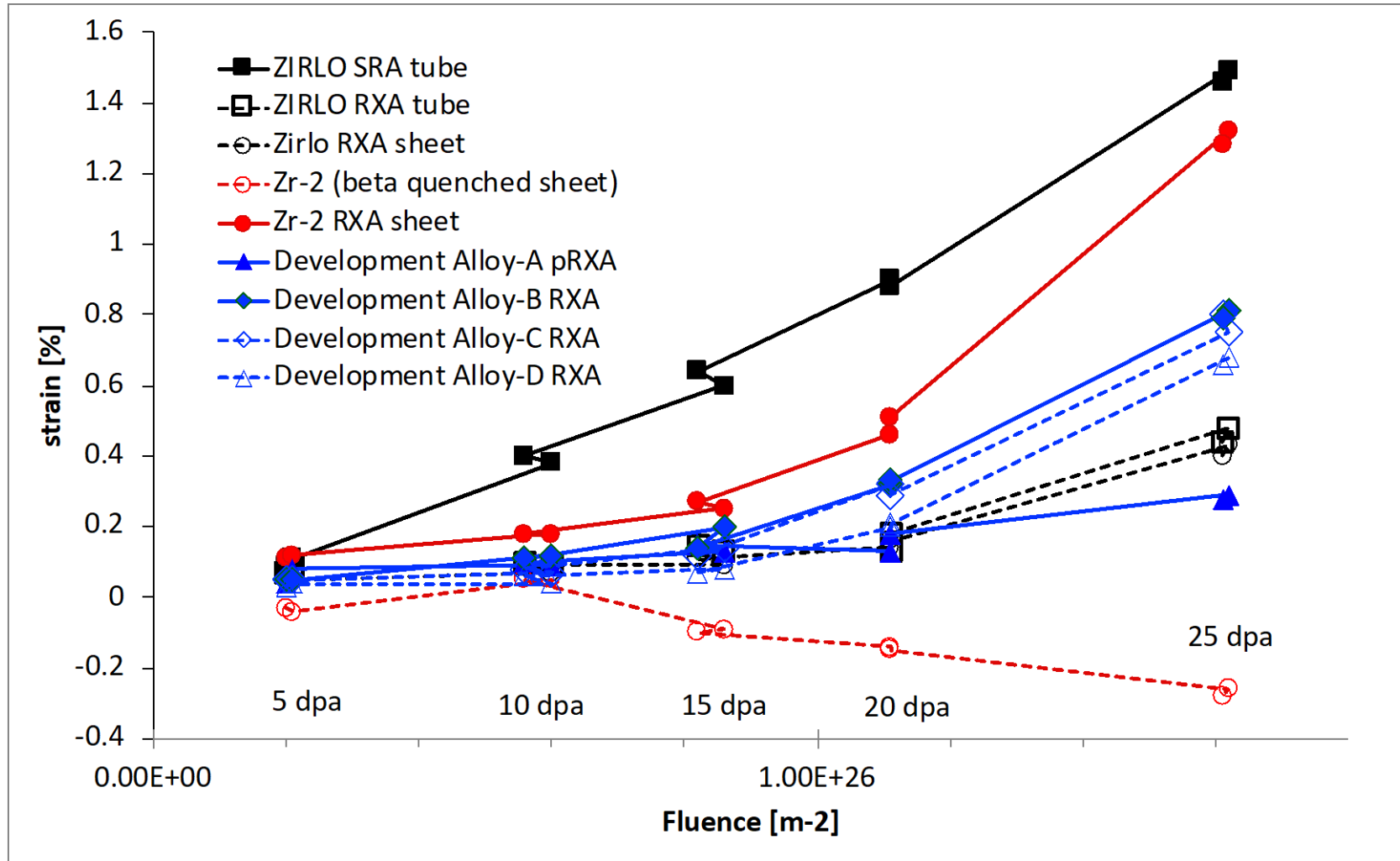
EPSRC FUNDING

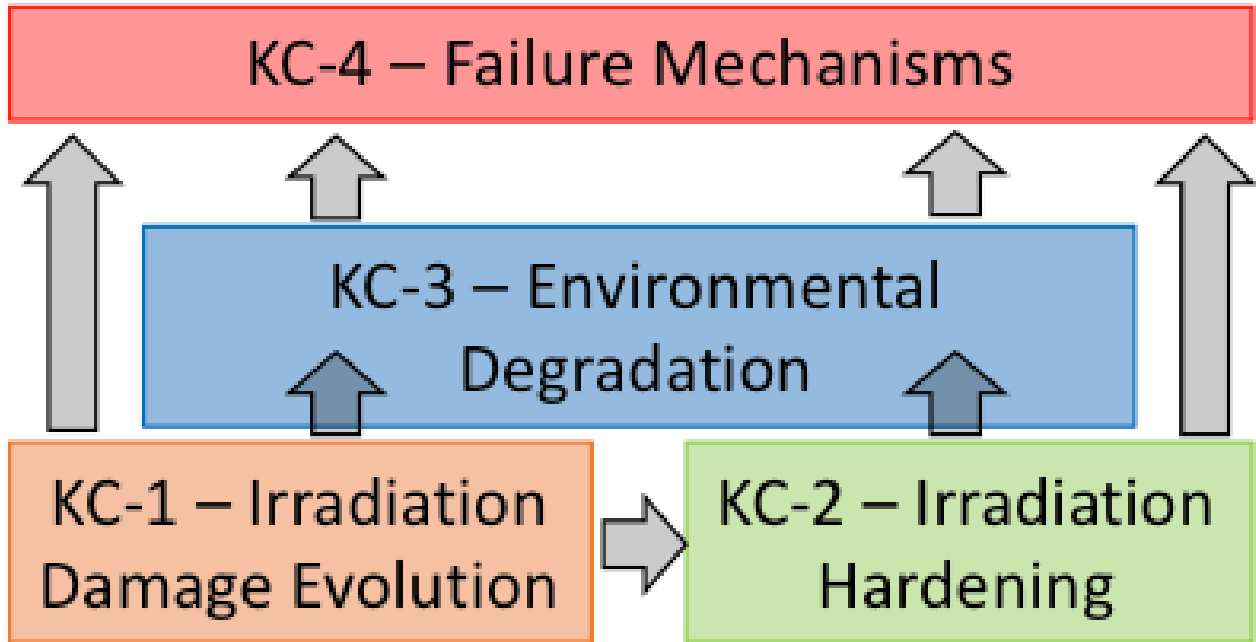
2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022



IND/OTHER FUNDING







**Expertise and People**

Length Scale	Characteris. Observation	Modelling Understanding
Atomistic description	Moody/ Frankel	Dudarev/ Race
Elemental/H Segregation	Grovenor/ Moore/ Moody	Dudarev/ Wenman/ Race
Dislocations	Preuss/ Grovenor/ Wilkinson	Race/ Balint
Precip./ Matrix	Moody/ Grovenor/ Preuss	Dudarev/ Robson
Strain/ Stress	Preuss/ Frankel/ Wilkinson	Dunne/ Balint
Env./Mech. Perform	Frankel	Dunne/ Wenman

- Management Group
- KC-1:**  
Race  
Preuss  
Irradiation Damage
- KC-2:**  
Preuss  
Balint  
Irradiation Hardening
- KC-3:**  
Grovenor  
Wenman  
Environmental Degradation
- KC-4:**  
Dunne  
Frankel  
Failure Mechanism

Independent Advisory Board (academia and industry) progress monitoring of KC1-4

Impact Monitoring Working Group