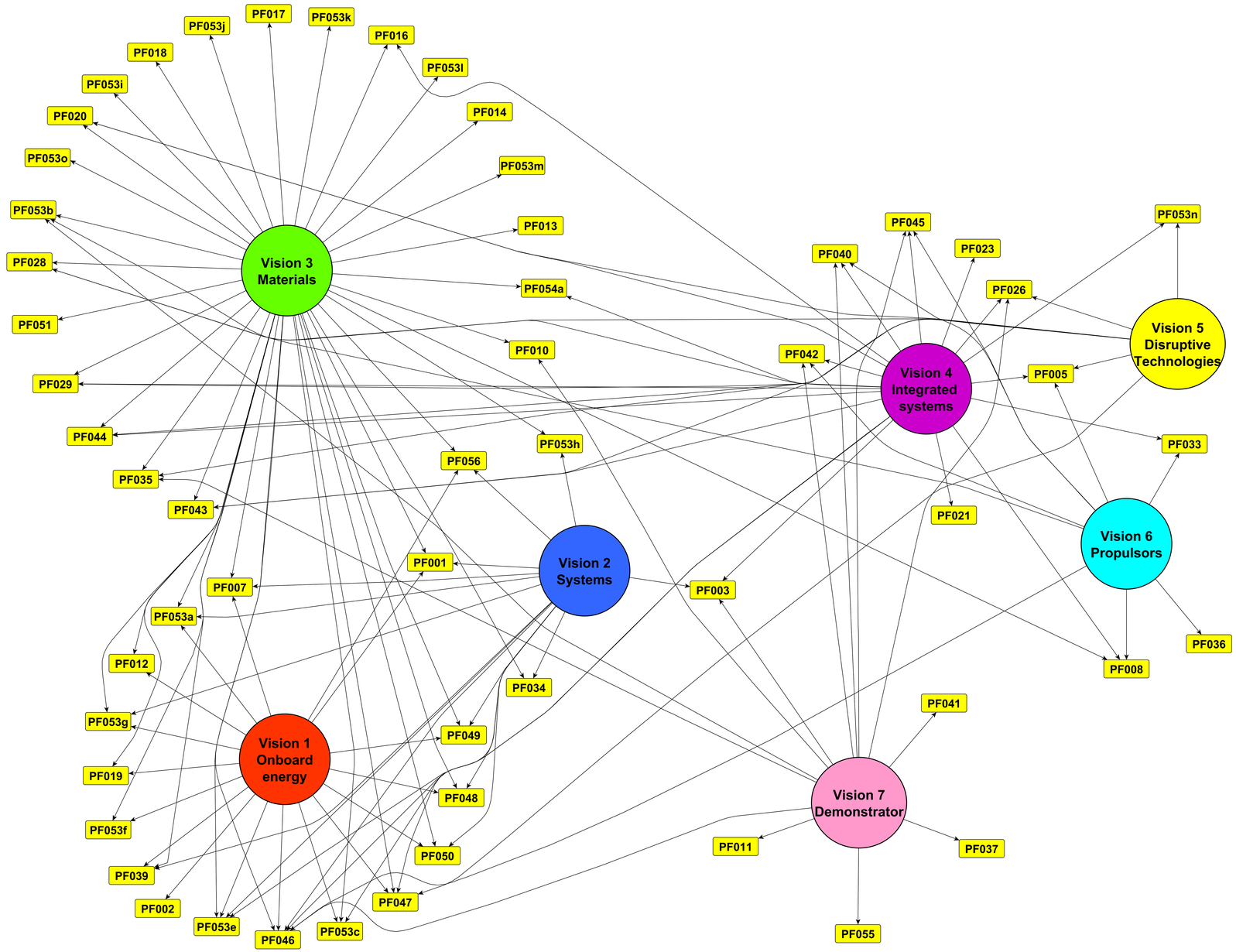
Propulsion Futures Beacon
Visions and pojects interactions

University of Nottingham
Propulsion Futures



PF001 Modelling (Richard Wheatley)
PF002 From epitaxy to science and processing technologies of novel van der Waals crystals (Amalia Patane)
PF003 Solid State H2 Storage Demonstrator (David Grant)
PF005 Strategic linkage with BUAA for Hydraulic Propulsion Drives (Seamus Garvey)
PF007 Metal anodes for Li-ion and Na-ion batteries (Darren Walsh)
PF008 Hybrid Coatings for Conductors and Insulators (David Grant)
PF010 Translating Energy Materials into Prototype Scale Devices (David Amabilino)
PF011 Hybrid Electric VTOL UAV (Richard Glassock)
PF012 Molecular Materials for Energy Generation Devices (Neil Champness)
PF013 EPR facility (Jon McMaster)
PF014 Additive manufacturing for Thermoelectric device array fabrication (Simon Woodward)
PF016 Thermal conducting Nanocomposites (Xianghui Hou)
PF017 XPS x-ray photoelectron spectroscopy (James O'Shea)
PF018 DNP - dynamic nuclear polarization (Jeremy Titman)
PF019 Exploring and harnessing charge-, spin- and phonon-quanta in new semiconducting quantum systems (Amalia Patane)
PF020 Thermal Conductivity equipment (Xianghui Hou)
PF021 High Speed Multi Air Gap Machines & Rotor Assembly (Chris Gerada)
PF023 Integrated Genset with Gas Turbines (Chris Gerada)
PF026 Synergy Lead (Seamus Garvey)
PF028 Reliability of Electrical Systems for Aircraft (Paolo Giangrande)
PF029 Spark Plasma Sintering (Ming Li,Fang Xu)
PF033 Optically Accessed Dynamic Bearing Loading Rig (Alasdair Cairns)
PF034 Inverted Raman Microscope (Lee Johnson)
PF035 Multi MW Propulsion Facilities (Michael Galea, Chris Gerada)
PF036 High Speed Intensified Imaging
PF037 Aerospace Demonstrator Lead (Richard Glassock)
PF039 Materials Processing (Ming Li)
PF040 High Energy Density Power Train (Michael Gimeno-Fabra)
PF041 RExMoto_Phase1 (Richard Glassock)
PF042 Power Hardware in the Loop (Michael Galea)
PF043 MBE of group III-nitrides (Sergei Novikov)
PF044 Liquid Plasma Processing platform (Tanvir Hussain)
PF045 Electrical-FAN (Phase1) (Paolo Giangrande)
PF046 Device Lab Technician (David Amabilino)
PF047 Energy Storage Devices (Lee Johnson)
PF048 Thin Film Analysis equipment (Simon Woodward)
PF049 Slot Dye Coater (David Amabilino)
PF050 Optoelectronic device fabrication (David Amabilino)
PF051 Imaging ellipsometer (Chris Mellor)
PF053a Nanostructured Oxides as Electrode Materials (David Amabilino)
PF053b Magnetron Sputtered Thin Films and Composites for Automotive and Aerospace Electrical Insulation (Michael Gimeno-Fabra)
PF053c High-performance perovskite solar cells (Ming Li)
PF053e Fuel Cell and Their Fuels (Ming Li, Gavin Walker)
PF053f Nanoscale characterisation of bulk heterojunctions formed by organic materials for photovoltaic devices (David Amabilino)
PF053g One-Dimensional Metal Oxides in Carbon Nanotubes for Energy Storage Materials (Andrei Khlobystov)
PF053h Triboelectric energy harvesting from interaction of polymeric materials (Xianghui Hou)
PF053i Characterisation of nanocrystalline Thin-Films-Graphene (TFG) UV-VIS-NIR photon detectors (Oleg Makarovsky)
PF053j Transformative semiconducting materials for energy conversion and optoelectronics (Amalia Patane)
PF053k Exploring and harnessing charge- and spin-quanta in two-dimensional quantum systems (Amalia Patane)
PF053l Preparation of redox active chromophores for energy generation and storage at interfaces (David Amabilino)
PF053m Applications of Carbon Nanotube/Metal Oxide Hybrids in Electrochemical Energy Storage (Neil Champness)
PF053n Development of advanced polymer nanocomposites for thermal management applications (Xianghui Hou)
PF053o Highly tuneable supported nanocatalysts for efficient and practical hydrogen storage(David Amabilino)
PF054a Insulating coatings for high temp windings and motors (David Grant)
PF055 Air Race E (Richard Glassock)
PF056 High Temperature And High Magnetic Field Characterisation Of Nanodevices (Oleg Makarovsky)

Vision 1- Onboard Energy

Vision 2- Energy Carrying Systems

Vision 3- Sustainable and Greener Materials for Propulsion Systems

Vision 4- Fully Integrated Generation Systems

Vision 5- Disruptive Technologies

Vision 6- Advanced Propulsor

Vision 7- Demonstrator