

Industrial Impact from Combined Materials Expertise

## Pilot Line ecosystems and the importance of creating value chains

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Host



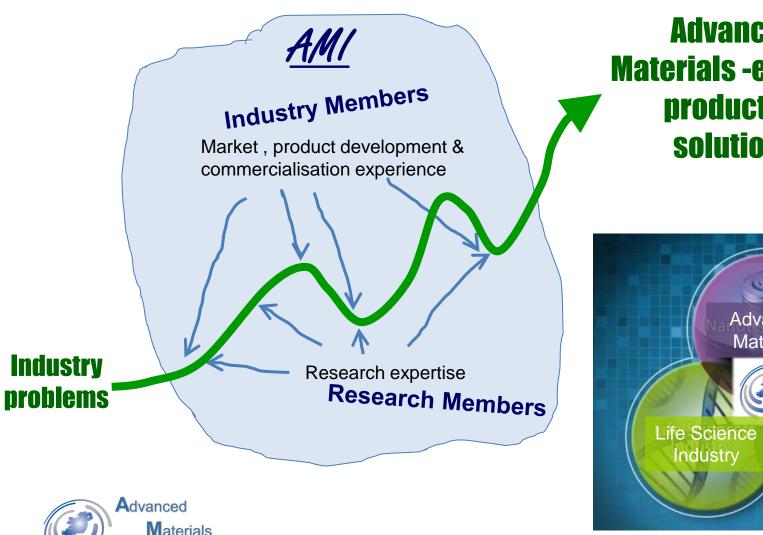


### Today – March 8<sup>th</sup>

The day when women are recognised for their achievements without regard to division, whether national, ethnic, linguistic, cultural, economic or political.



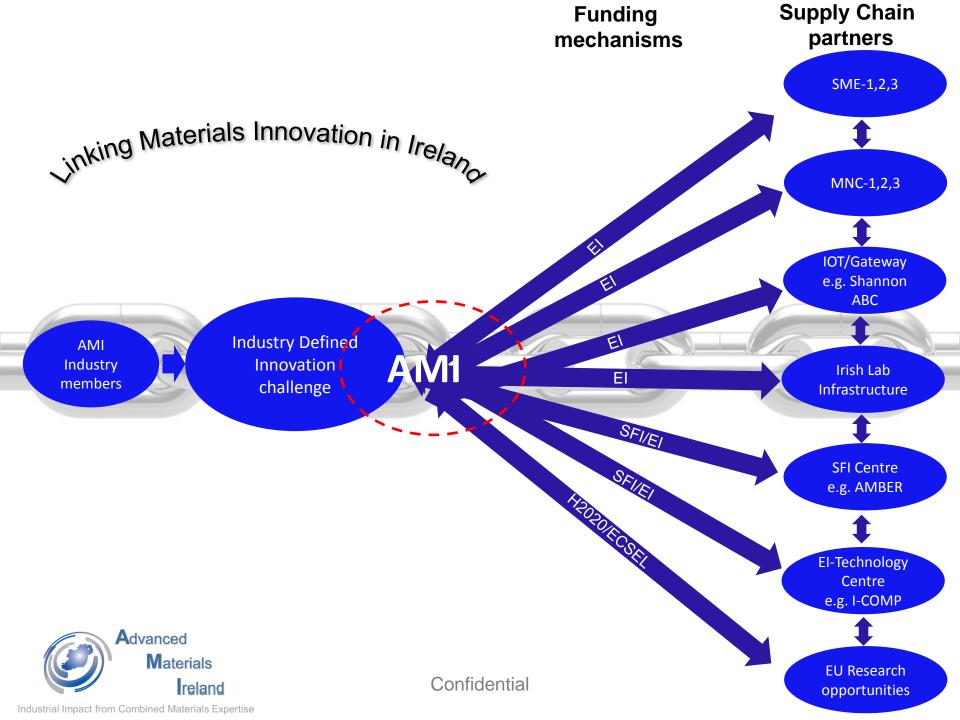
## The Advanced Materials Ireland Model – Easier Collaboration via Supply Chain Partnerships



**Advanced Materials -enabled** products & solutions



reland



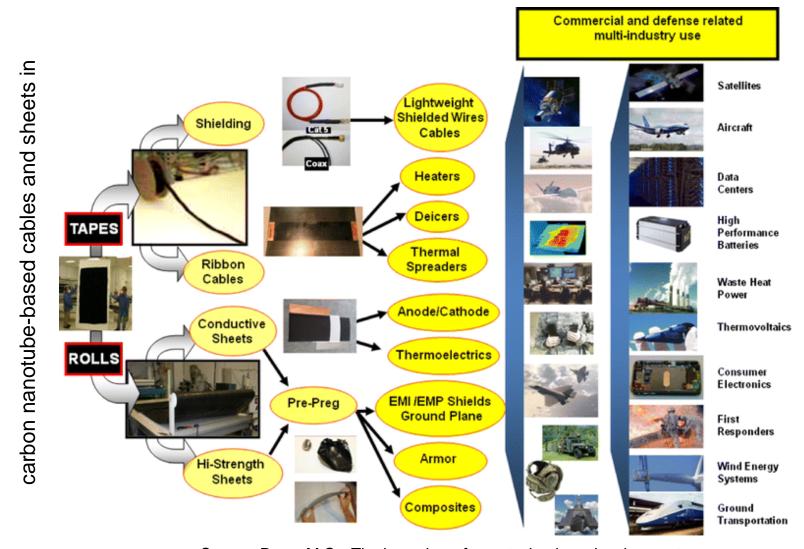
#### Key components of a successful Pilot Line





#### **AMAT learnings for:**

#### "Nobody is the best at everything"



Source: Roco, M.C., *The long view of nanotechnology development:* the National Nanotechnology Initiative at 10 years.

Journal of Nanoparticle Research, 2011. **13**(2): p. 427-445.

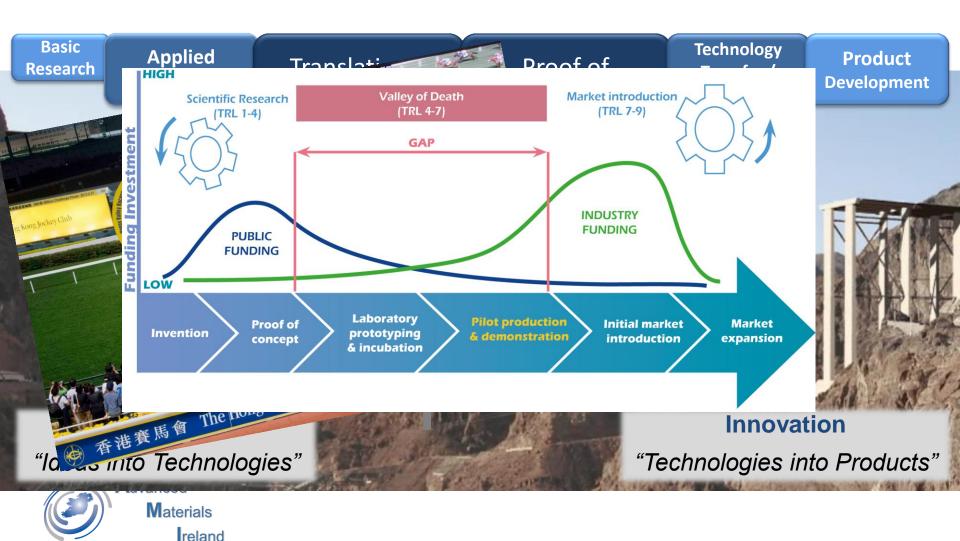
### AMI – Irish membership – Value chain partners



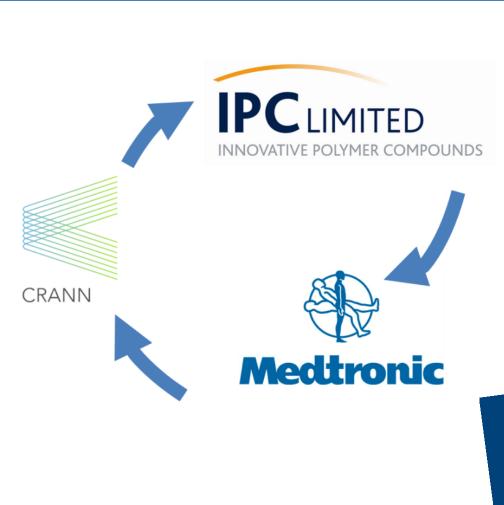
(22 companies, 6 institutes)

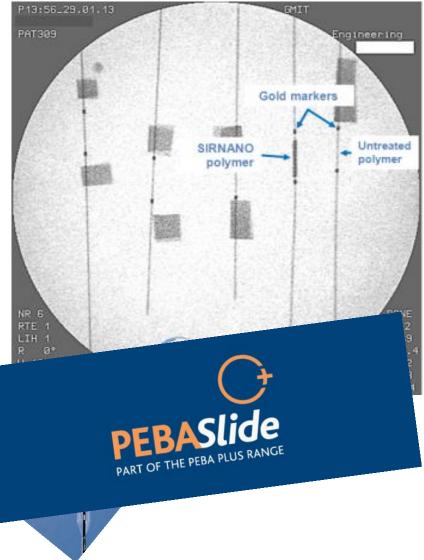


#### Industry view – Translational Technology Development



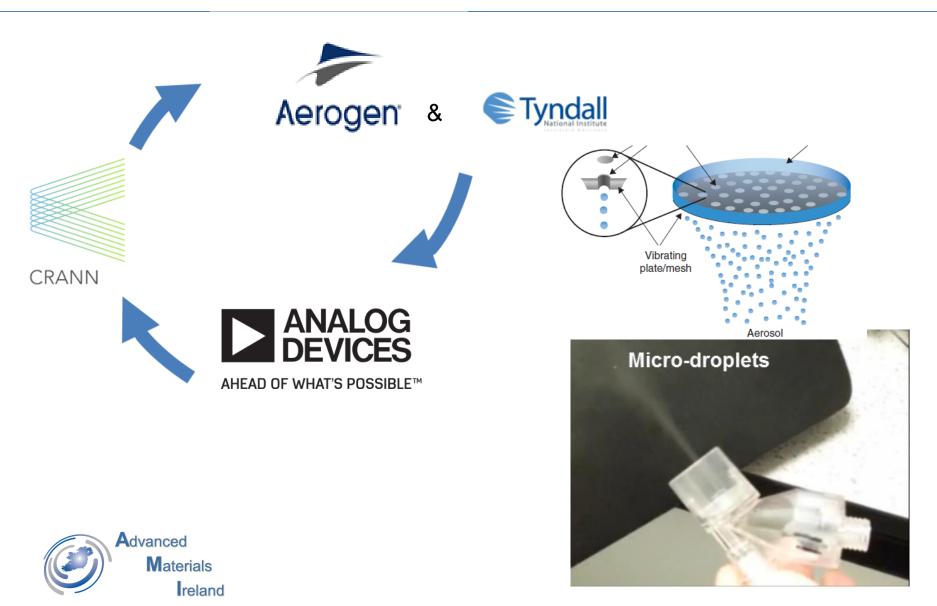
#### SIRNANO – radiopaque polymers for catheters







#### INHALE – Piezoelectric MEMS based nebuliser technologies



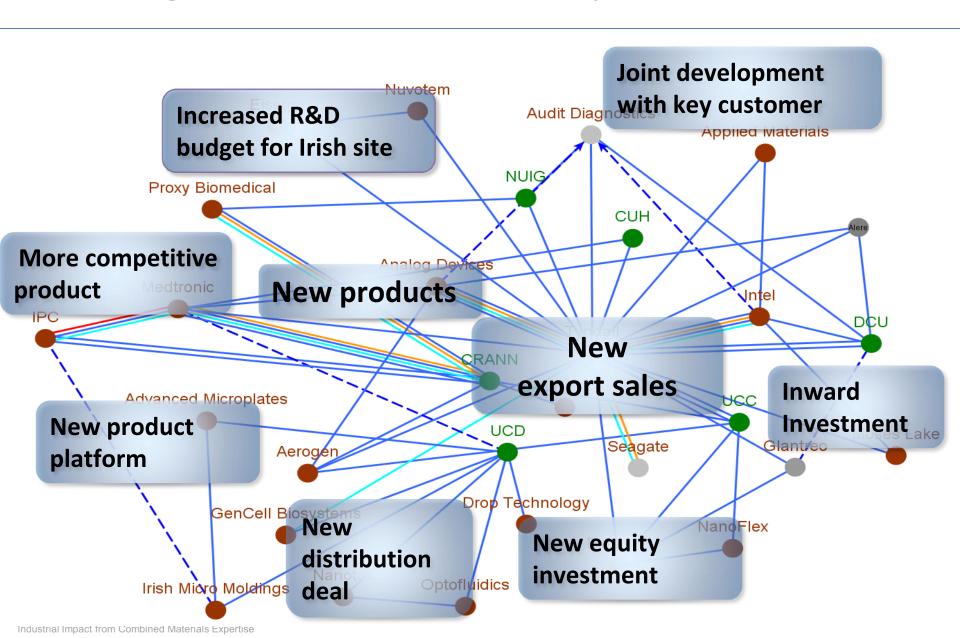
#### Current innovation projects

#### AMI Industry member current requirements:

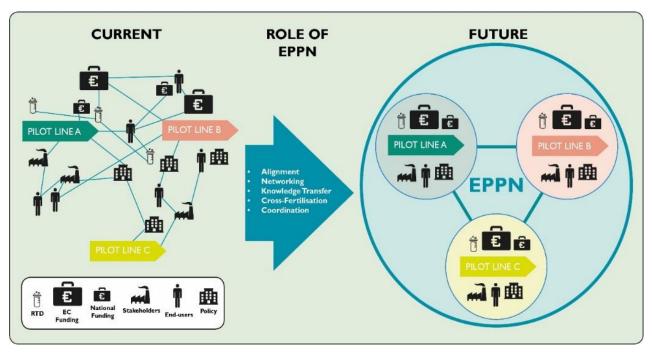
 Sterilisation of Medical Device product – Multi faceted from materials to sterilisation processes.

 Electroactive polymers – not as an actuator but as the body of the materials – An example is Nitinol but not what the industry want

#### Creating the value chain ecosystem



### EPPN the link in the chain-supporting the impact of pilot lines



#### **Current Situation**

#### Pilot Line sector in Europe

- High number of Pilot Lines
- Numerous fragmented value chains
- Increasing cross sectoral challenges:
  - To build a 'Single Market for Innovation'
  - Industry access to research expertise
  - Ensuring quality of services offered
  - Maximising investments

#### **EPPN link**

- Networking
- Mapping
- Best practice
- Barrier identification
- Alignment
- Coordination
- Sustainable business planning

## **Expected Impacts**

- · Improved coordination of initiatives
- · Identification of synergies and alignment of efforts
- **Optimisation of value chains** and ecosystems
- Increased EU competitiveness in strategic sectors
- Increased innovation capacity and outputs



#### Formation of a Pilot Line Ecosystem

- Build new connections and inform. Build the Network, Meeting people and establish links between industry members, pilot line host institution, business hubs and funding agencies e \*
- view to A "smart brokerage pack is whereby broker possesses technical domain knowledge pack investment is scaled very and take a long term view." Aplish new links with partners with a pack is whereby broker possesses pack is whereby broker possesses pack is whereby broker possesses technical domain knowledge. Pilot line capabilities), Industry investment is scaled very packet. All stakeholders in the system need to collaborate packet.
- Foster sustained at Pull together the correct supply chain for the proposal in question. Fund Feasibility studies, 1 IP agreement Provide next step funding options





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# Thank you Any Questions?

Host



