## Activity – Bags of ideas

JOHN BESSANT
Managing Innovation

## **Activity – Bags of ideas**

This activity is designed to help you explore knowledge push as a source of innovation

Like it or loathe it, polythene is one of the key material innovations to come out of the 20<sup>th</sup> century. It is the world's 'favourite' plastic measured in terms of consumption - 60 million tonnes /year find their way into films, plastic bags, packaging, cosmetics and a host of other applications. Discovered by accident by chemists working at ICI in the UK in 1933 the original low density polyethylene product has gone through a classic pattern of incremental and occasional breakthrough innovation – giving rise to new products – like high density PE and film and to process innovations like the Phillips catalysis process which enabled better yields in production.

Do some research on polythene and try and draw a 'family tree' of innovations – major breakthroughs and incremental improvements like finding new markets. Try to identify the drivers behind the big shifts – for example the pressure on sustainability which is pushing towards bio-degradable versions of the polymer.

Alternatively pick another product like this and try to track its origins in the science labs of the world into everyday and widespread application.

## Box 5.1: The ubiquitous tale of polyethylene

Like it or loathe it, polythene is one of the key material innovations to come out of the 20<sup>th</sup> century. It is the world's 'favourite' plastic measured in terms of consumption - 60 million tonnes /year find their way into films, plastic bags, packaging, cosmetics and a host of other applications. Discovered by accident by chemists working at ICI in the UK in 1933 the original low density polyethylene product has gone through a classic pattern of incremental and occasional breakthrough innovation – giving rise to new products – like high density PE and film and to process innovations like the Phillips catalysis process which enabled better yields in production.