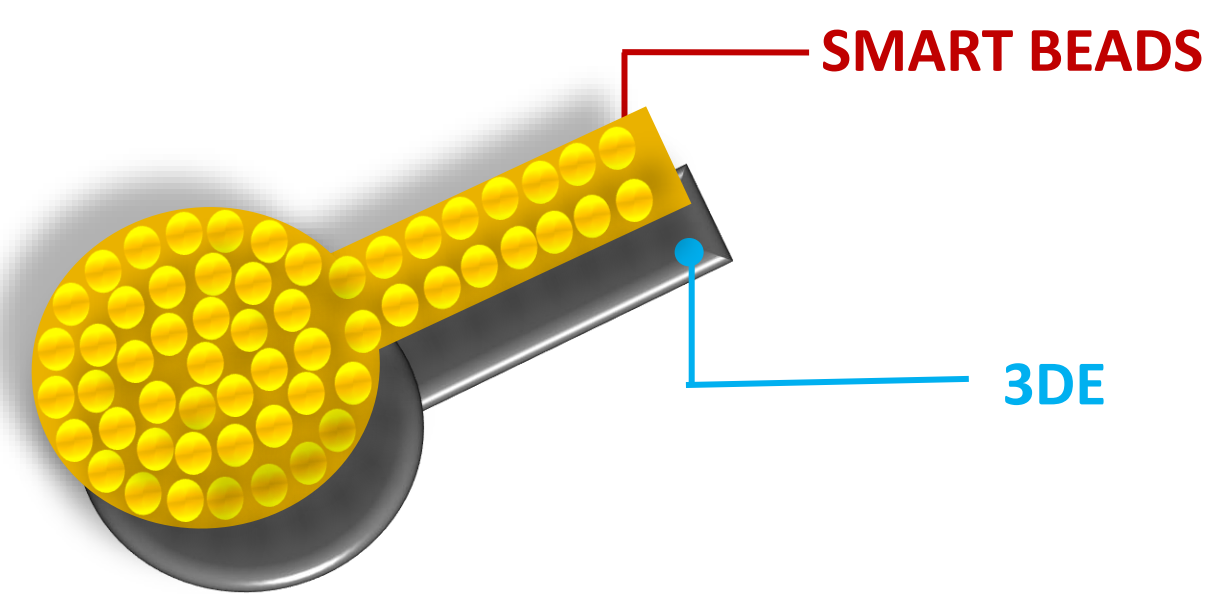


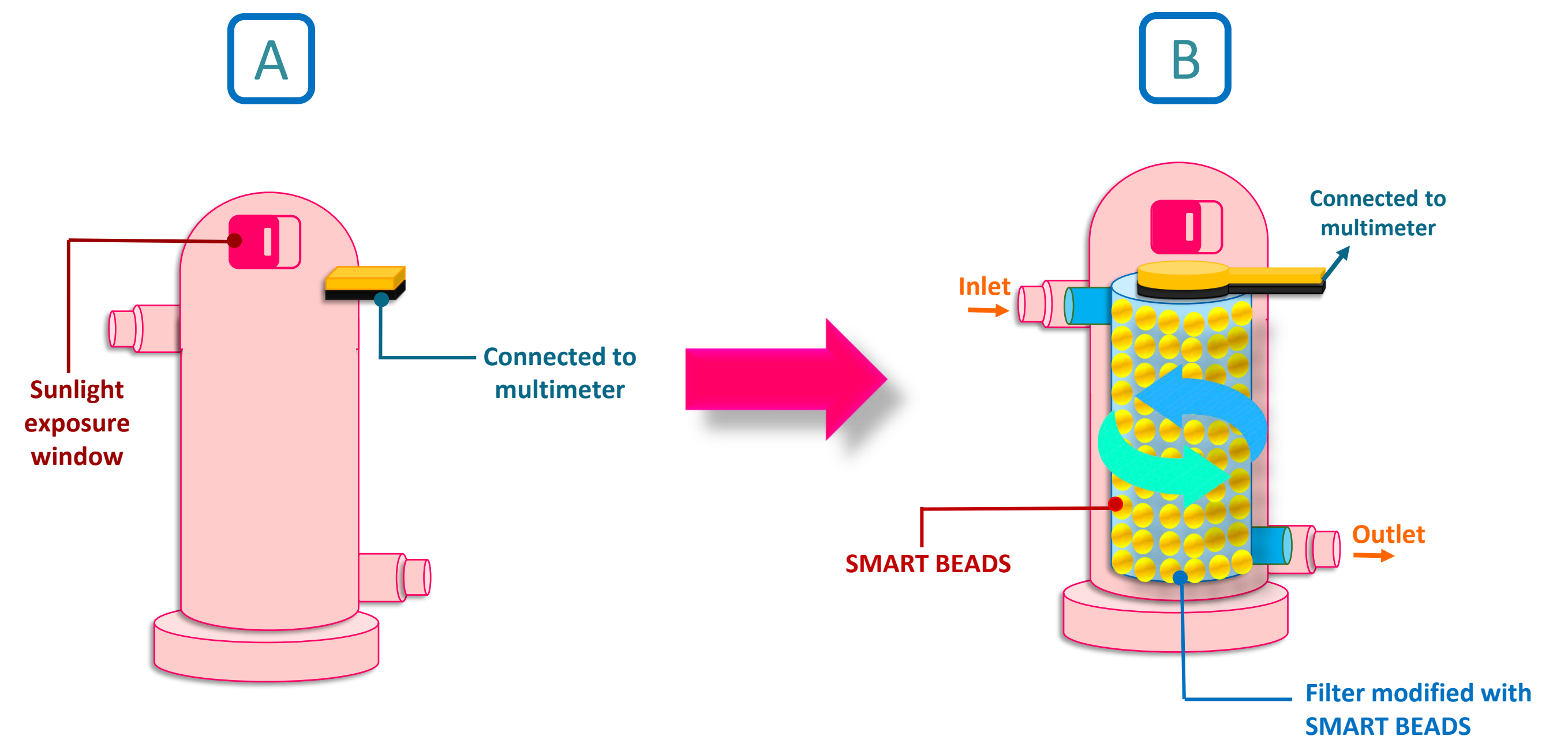
OUTDOOR WATER FILTER WITH SMART BEADS

FOR DUAL-FUNCTIONALITY OF FILTER-PHOTOSENSOR OF CONTAMINANTS

PATENT NO. PI 2019000353

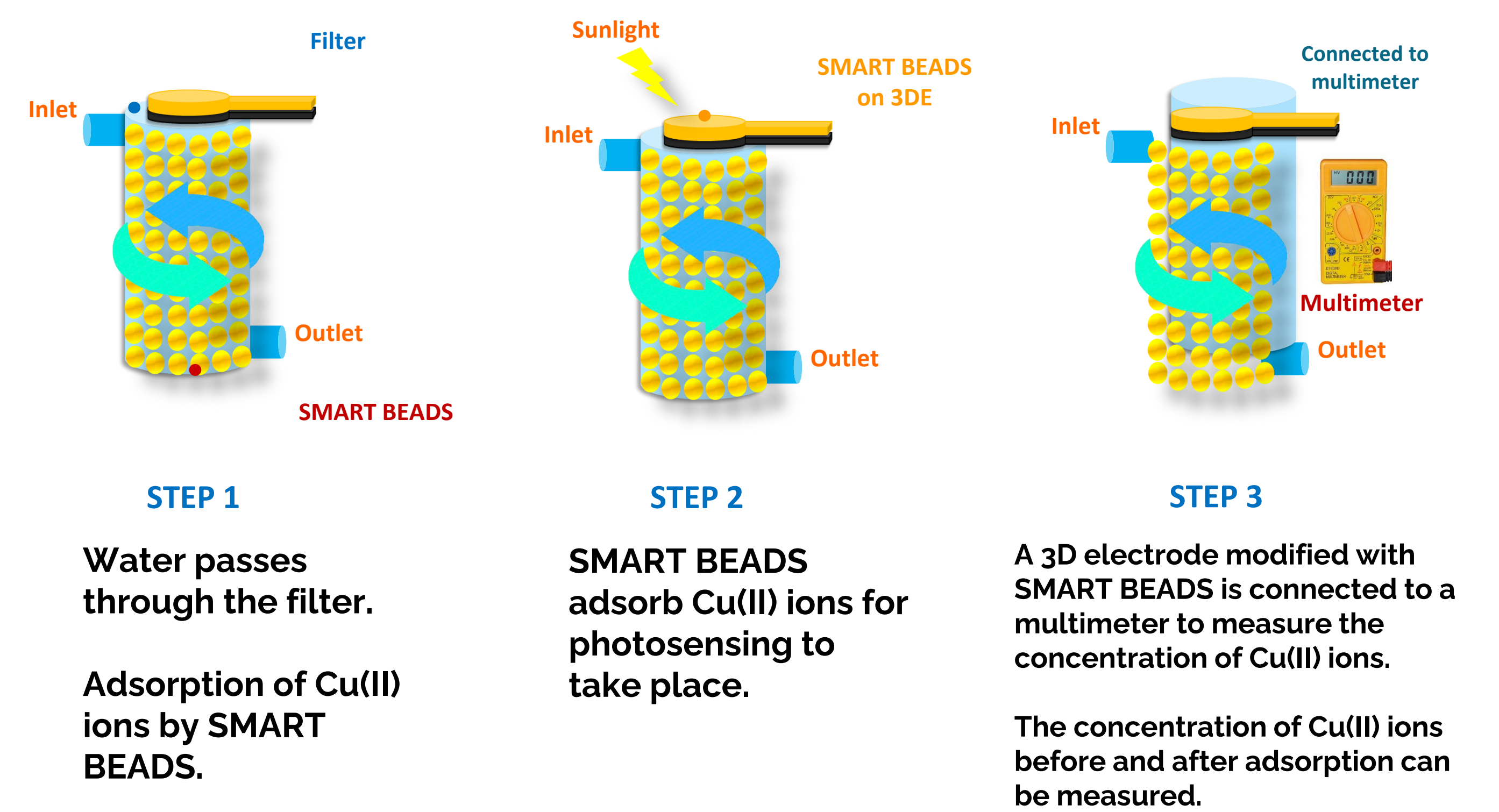
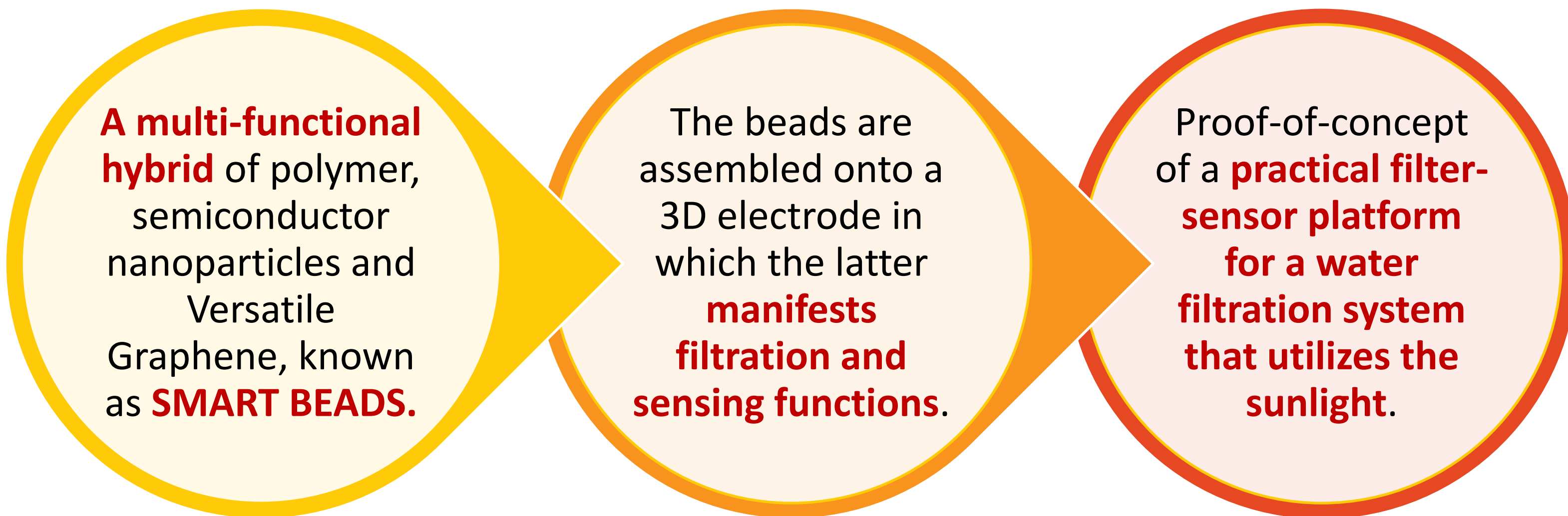


The schematic illustration of SMART BEADS on a 3D electrode (3DE)



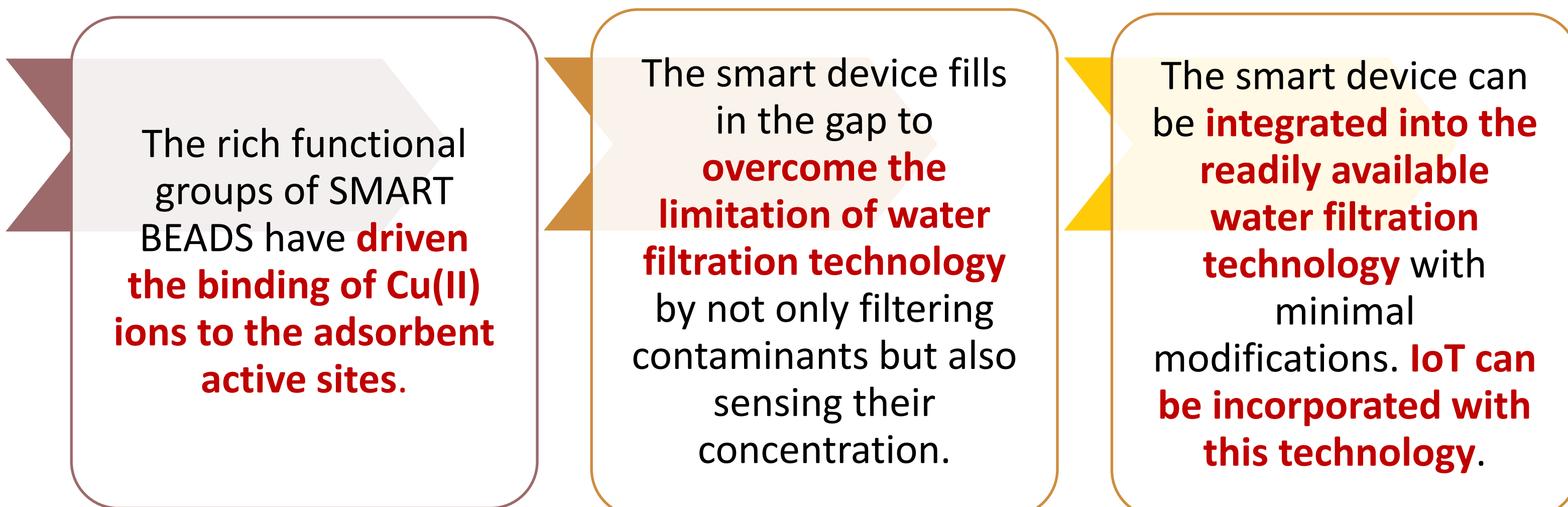
The outdoor water filter for simultaneous filtration and sensing of Cu(II) ions. The (A) outside and (B) inside image of the outdoor water filtration-sensing system.

INTRODUCTION OF TECHNOLOGY

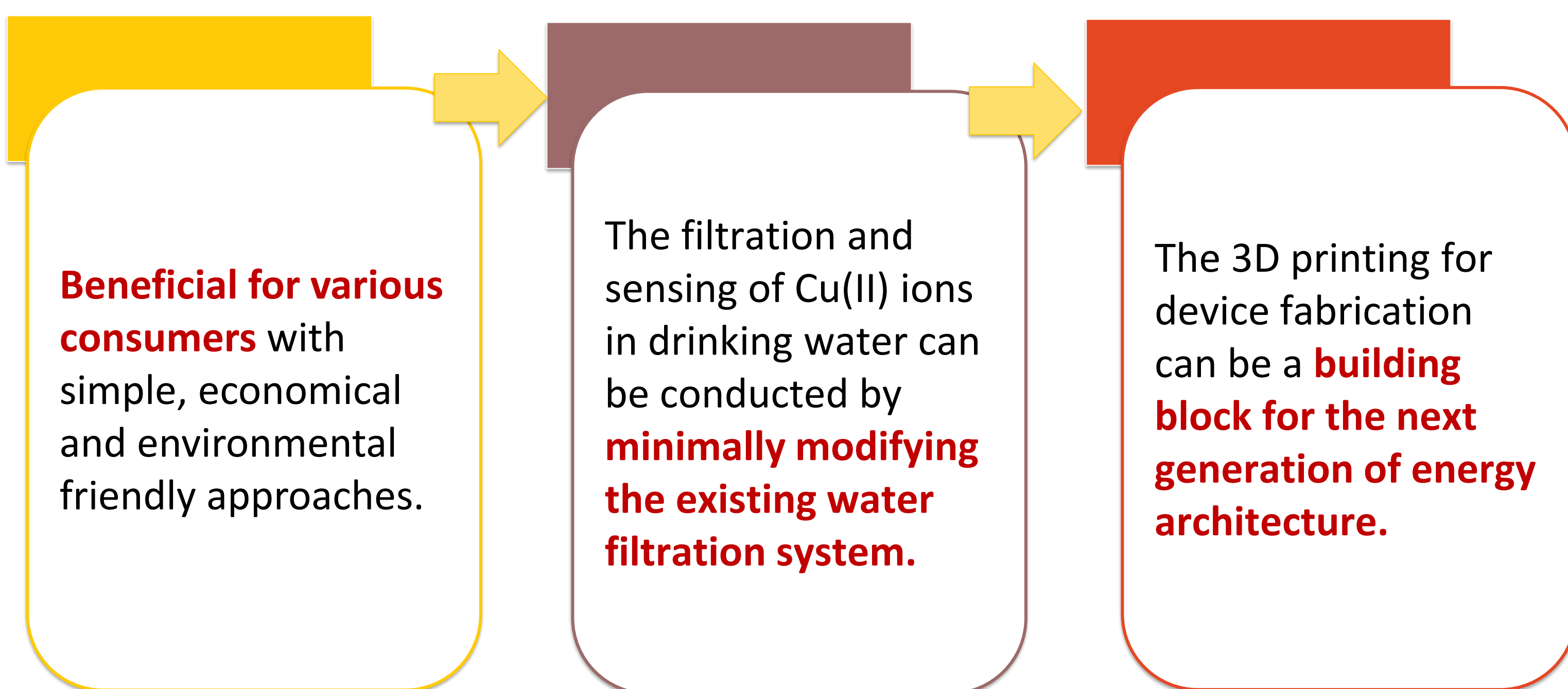


The mechanism of dual-functional SMART BEADS for filtration-sensing of Cu(II) ions

INVENTION



ADVANTAGES



Current Outdoor Water Filters in the Market vs Our Invention

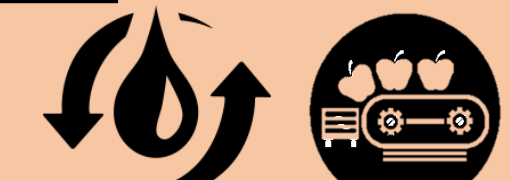
	Brand A	Brand B	Brand C	Our Invention
Average Price	RM5,090	RM3,500	RM3,225	RM200-RM4,000
2-in-1 System (Filter-Sensor)	✗	✗	✗	✓
Portable Filter-Sensor Device	✗	✗	✗	✓
Sensor Device	✗	✗	✗	✓

Consumers/End Users



Residences, offices, hotels, Restaurants, food outlets, hypermarkets and retailers

Industries



Water treatment and purification, food and beverages, medicine, pharmaceutical and cosmetics



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