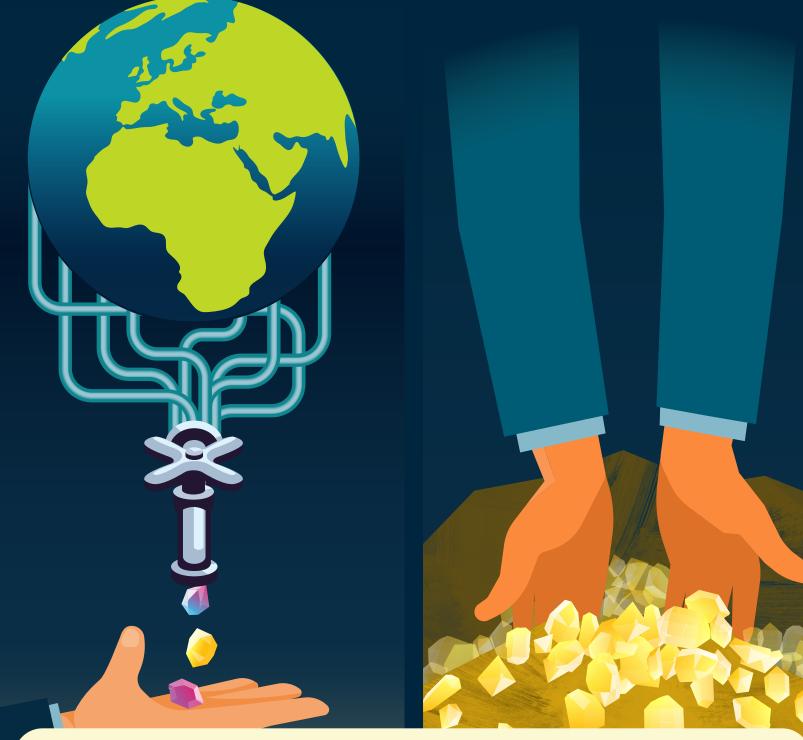
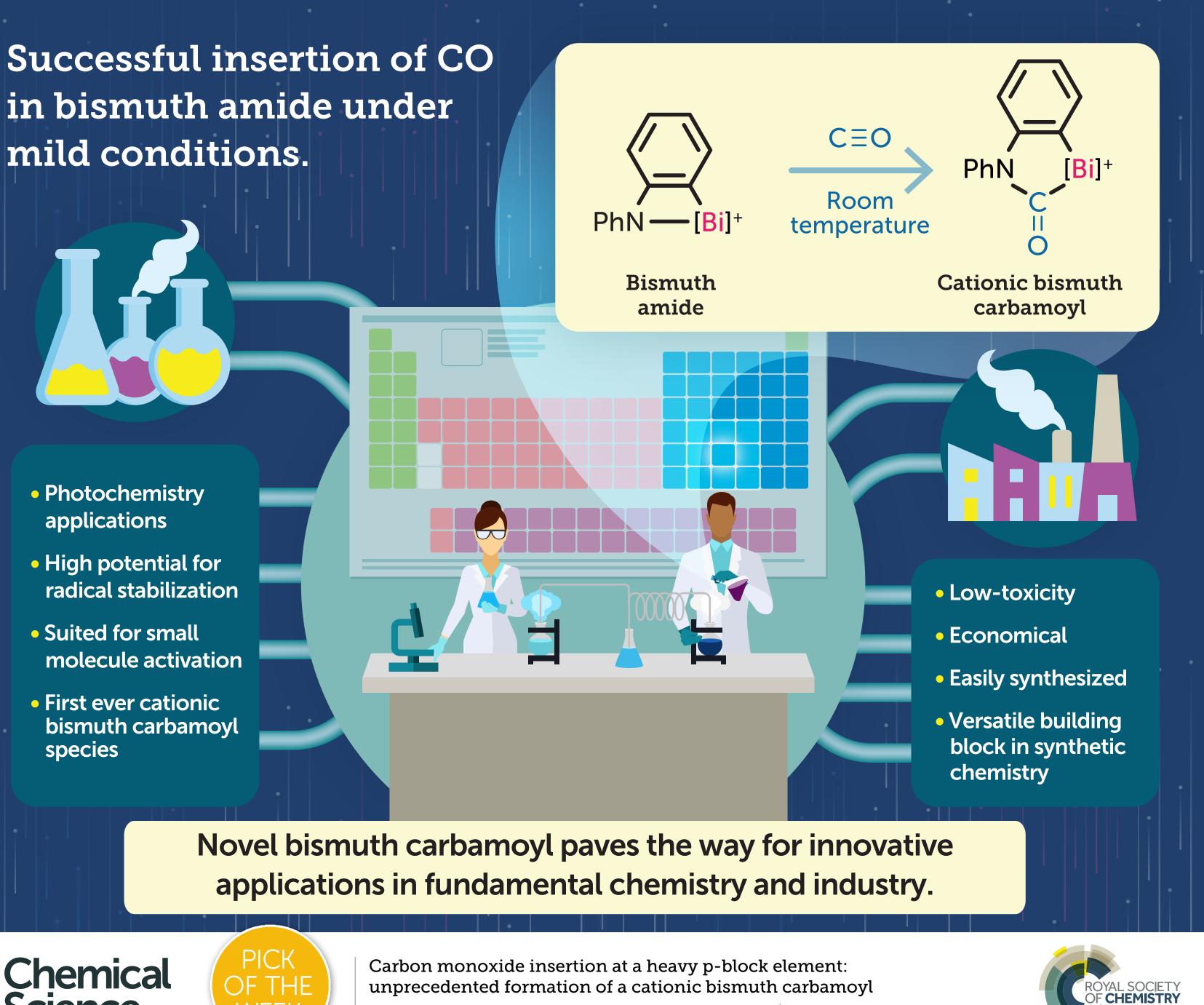
A radical idea: Bismuth as an alternative to transition metals in chemical synthesis

Rare elements in conjunction with carbon monoxide (CO) form metal carbonyls that act as intermediates in the synthesis of versatile materials.



As their availability is limited and they can carry environmental concerns, replacing them with alternative and environmentally benign elements is essential.







Bickelhaupt, Lichtenberg et al. (2019)

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