Gold in catalytic converters A new technology innovation supported by the World Gold Council, now being implemented by the automotive industry Most vehicles on the road require a The catalytic converter itself is made Platinum, palladium and rhodium are the metals commonly used within catalytic converter to help remove from a heat resistant substrate, with pollutants generated by burning fuel a large internal honeycomb structure catalytic converters to help break covered in a thin coating of tiny down pollutants. However, gold can in an engine. also be used... particles of metal. 3 Au H,O CO It has been shown that a stable and effective formulation can be obtained when gold, palladium and platinum are combined. The pollutant molecules 1. carbon monoxide HC (CO), 2. nitrogen oxides (NOx) and 3. unburned hydrocarbons (HC) enter the catalytic converter. NO, The pollutants come into contact with the hot metals inside the catalytic converter and undergo a simple chemical reaction to form less harmful molecules such as carbon dioxide and water. WORLD The less harmful molecules exit the

catalytic converter.