## **Conflict minerals clampdown**

The Securities and Exchange Commission has ruled that U.S.-listed manufacturers such as Apple and Boeing must scrutinise the sources of four metals to make sure they don't help fund human rights abuses

## **ANATOMY OF A SMART PHONE**



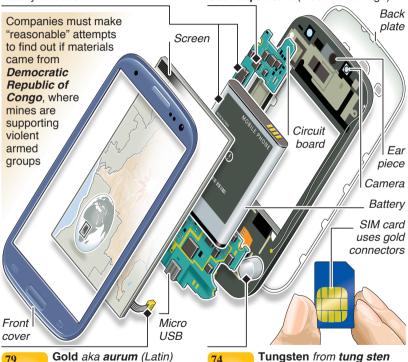
**Tin** aka **stannum** (Latin) Silvery, malleable metal that does not easily oxidize in air **Source:** Cassiterite

Use: Circuit board solder and battery anodes



Tantalum from Tantalus (Greek mythological figure) Rare, hard, lustrous metal. Highly corrosion resistant

**Source:** Columbite-tantalite (Coltan) **Use:** *Capacitors* (electrical storage)





Gold aka aurum (Latin)
Dense, soft, malleable metal
Source: Nuggets or grains in
rock and alluvial deposits

Use: Connectors – does not corrode in air like silver and copper



Tungsten from tung sten (Swedish) meaning "heavy stone"; aka wolfram (German). Hard, rare metal

Source: Wolframite Use: Vibration motor

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Source: Wire agenices