

# The rollable smartphone is coming

A rollable smartphone has been shown at CES 2021, featuring a design that allows a mobile phone display to extend to the size of a small tablet

■ **LG ROLLABLE** (*Second LG Explorer Project\* handset*)



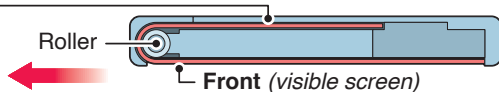
**Phone mode**



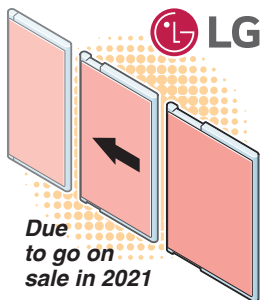
**Tablet mode**

**HOW IT WORKS** (*Top edge view*)

**1 Phone mode:** Part of flexible screen is rolled into back of handset, hidden from view



**2 Tablet mode:** Motor extends left edge of device, unfurling hidden area of screen so it faces front

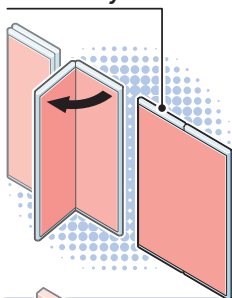


*Due to go on sale in 2021*

■ **OTHER POPULAR METHODS TO EXTEND SMARTPHONE DISPLAYS**

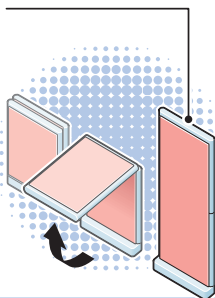
**Vertical fold**

Phone into tablet, like **Galaxy Z Fold2**



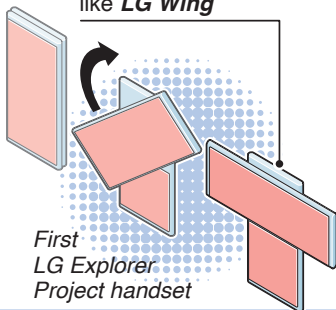
**Horizontal fold**

Compact into phone, like **Motorola Razr**



**Rotating dual-display**

Phone into "T" shape, like **LG Wing**



Rollable and foldable designs are only possible thanks to flexible, but fragile, **OLED** (Organic Light-Emitting Diode) or **AMOLED** (Active Matrix Light-Emitting Diode) displays

\*Initiative to design bold technology that offers new functionality. Note: In Jan 2021, Apple began testing two foldable iPhone prototypes. Pictures: LG, Thomas Wolf (Creative Commons)

Sources: Engadget, Android Authority, TechTalkTV, FreePatentsOnline

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