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New Hydrology is in your pocket: cell phones in the clouds.

Hydrologic discovery has been limited existence of and access to reliable and revealing data. In this talk I outline what I believe the transformative opportunities are for hydrologic discovery, with specific emphasis on 1.Redundant robust sensing based on low-cost sensors; 2.cell phone up-linking as a way to continuously track hydrological processes and proper instrumentation function; and 3.The importance and synergistic power of common data formats for archiving and sharing data. Examples from the US and Africa are employed to make these points.