



public services.

· [Masdar City](#) is a planned high-tech habitat created entirely from scratch in Abu Dhabi; key goal is for it to eventually function as a clean tech cluster. At full build out by 2025, Masdar City is expected to have 40,000 residents and 50,000 commuters.

But to quote from that cheesy 1971 Carpenters song, 'we've only just begun.'

Mike Steep, SVP of global business operations at [PARC](#), a Xerox company, is also a distinguished visiting scholar at Stanford University. Writing in *Forbes* about the future smart city, Steep emphasized that we don't just live in a city – we cross its layers daily.

"In the simplest view, cities have three layers: the underground level, the surface and the airspace. In a Smart City, there's a corresponding parallel universe of data-collecting sensors integrated within each stratum," said Steep.

As one example, Steep said cities are supported by an enormous subterranean physical complex – electricity, fresh water, heat, sewers, structural supports and transportation.

"Today these systems are being augmented with sensors, digital arrays, and hubs to monitor every aspect of their activity. If the earth shakes, whether from a train or a seismic event, the data will be accurately captured," said Steep.

Steep added that the truly connected city "begins to emerge in how data is managed across all three physical layers. Data analytics becomes the glue, that when managed well, dramatically improves your experience of life."

And when implemented wisely, said Steep, smart cities will put each of us "at the center of far-reaching civic and commercial networks...points of connection will be everywhere – smartphones, clothing, cars, benches, buildings, parking meters, speed bumps, shop windows, and more."

and smart citizen.



## 3D Printing Opening the Doors to Counterfeiters

Monday, Sep 1, 2014

BLOGPOST Last year architects in Amsterdam started constructing a 3D printed home. Aircraft manufacturers are honing ways to build 3D printed planes. And 3D printing is now wending its way through the fashion industry. A 3D printed dress designed by Michael Schmidt (designed on an iPad), was printed for a private runway event – it was printed in 17 parts on an EOS P350 3D printer. "3D printing presents tremendous opportunities for businesses," said Simon Jones, a partner at DLA Piper in London, a global law firm. "Manufacturers will no longer need to own large production facilities halfway around the world, because they can print products on demand or sell licenses to print them locally. This will have a huge

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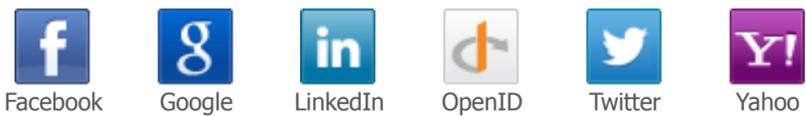
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