

An Indigo Use Case: Studying MRI images without possessing them



AT&T Network 3.0 Indigo will help data-power your world.

It will start with the best qualities of our evolving network, including high speeds and low latency, or lag time. The network must be fast and flexible to move huge volumes of data.

Riding the network will be applications – the things that will improve your world with their data power.

In between the network and the applications will be the guts of Indigo – a platform. Think of it as a round wooden spool with holes around the outside in a children’s construction set. All the different sticks plug into it. It’s the hub for spokes in the cloud.

Here is an example of how Indigo could help solve a real-world problem:



A hospital system has many locations where technicians perform thousands of MRIs. The first step in Indigo is to make sure that the right people, and not the wrong people, can access the images.



Then a university researcher wants to develop an algorithm that can detect cancerous tumors earlier than ever before by scanning MRI images. To create and improve the algorithm, the researcher needs to train it on thousands of images. But they are private, and they are under the control of the hospital system.

That’s where Indigo comes into play, in something we’re calling a data community. The hospital can own a data community, invite members, and set rules. Community members like the university researchers might get a detailed description of a data set – in this case, the MRIs. But they wouldn’t have full access to the raw data.

