



High-speed Internet for everybody

An innovative experience in Nièvre

Fibre-optic wire installation on "HT-A"

The construction of a fibre-optic backbone involves heavy initial investment. Civil engineering represents the major part of the total costs. Niverlan looked for a solution that was both economical and viable in offering urban and rural communities access to high speed Internet connections.

Niverlan was the first to try out the installation of fibre-optic cables on HT-A in France.

So as to better control the costs with the aim of strengthening the capillarity (points of presence) of our fibre-optic network, Niverlan chose to use the overhead networks: **HT-B**: the high voltage electric network for which RTE is responsible (RTE is the French Electric Transport Network). A fibre-optic wire was wound around 130 km of electric cables. **HT-A**: Niverlan chose to replace an initial idea of an electromagnetic wave link by the HT-A technology, using the high voltage electric network between two towns.

- The chosen technology was ADSS (all dielectric self supporting cable) which consists of hanging the fibre-optic wire under the electric cables using the existing electric pylons.
- The electricity supply remains under tension while the fibre-optic cable is installed. A kind of safety "umbrella" allows workers to continue installing the wire safely.
- This very conclusive experiment should be extended, especially since 90% of the civil engineering costs can be saved.

www.niverlan.fr
For further information:
contact@niverlan.fr

