

Appendix 1 – Glossary of Terms

Bit	A reference to internet speed. 1000Mbps is a gigabit
Mbps / Gbps	Megabits per second / Gigabits per second
Megabytes	A quantity of data which represents the capacity of a hard drive or memory card
(A)DSL	(Asymmetric) Digital Subscriber Line – legacy copper internet connection via your telephone line and exchange. The connection degrades over distance
Superfast	Fibre optic connection from exchange to cabinet and then copper from cabinet to premises. 30Mbps service.
Ultrafast	Pure fibre optic or coaxial or a combination. services exceeding 300Mbps.
Gigabit (Kirklees Core)	End to end fibre optic connections more commonly used for business connection.
3G (wireless)	Download speeds up to 7.2Mbps
4G (wireless)	Download speeds of 75 - 150Mbps.
5G (wireless)	Currently being developed. It's anticipated 5G will unlock use of machine-to-machine, Internet of Things (IoT) devices currently in development. Speeds will initially be in the region of 1Gbps.
Li-Fi (wireless)	Cellular wireless networking (re)using lighting. Specifically, light emitting diodes (LEDs) are used in LiFi as visible light transmitters.
Wi-Fi (wireless)	A technology for wireless local area networking.
FTTP, FTTH, FTTB	Fibre-to-the-[Premise][Home][Building] is used to describe end-to-end 'full fibre' over which services can be delivered. FTTP infrastructure is the Government's focus now. FTTP is 'Gigabit Capable'.
FTTC	Fibre-to-the-cabinet describes the service that connects exchanges to street cabinets with the final connection to the home or businesses being traditional (existing) copper infrastructure. This is the common infrastructure for Superfast Services. Speeds of up to 80Mbps.
Dark Fibre	Installed unused fibre optic infrastructure that an Internet Service Provider (ISP) can buy to deliver their service. Kirklees Core is a dark fibre infrastructure.
USO	Universal Service Obligation , a legal right to request a broadband connection of at least 10Mbps; due to be in place by 2020.
IX Leeds	'Internet Exchange, Leeds' is one of the countries 3 primary internet exchanges. London and Manchester being the others.
AQL	A commercial Data Centre that sits on top of IX Leeds. This contains servers holding iTunes, Netflix, LinkedIn etc.
LPWAN	A low bit rate wireless telecommunication network designed to allow long-range communications, such as sensors operated on a battery.