1NCE IS ABOUT ENERGIZING YOUR BUSINESS AND CREATING NEW OPPORTUNITIES IN AREAS YET UNCHARTED.

START YOUR GROWTH STORY BASED ON IOT CONNECTIVITY PROVIDED FASTER, EASIER AND CHEAPER THAN EVER BEFORE!

IOT CONNECTIVITY BROUGHT TO ITS CORE

1NCE DATA PLAN

10 EUROS

FOR 10 YEARS

FLAT RATE *

* 500 MB included –
additional volume bookable

1NCE FOCUS

MADE FOR NARROWBAND & LOW BANDWIDTH APPLICATIONS

smart meter	smoke alarms	water pipelines
lighting	white goods	waste bins
high value assets	bicycles	smart agriculture
warehouse MGMT	cylinders	pipelines
machine tools	skips	connected buttons
smart parking	security alarms	yet unknown

In a world of rising cost, complexity and risk 1NCE delivers unbeatable pricing, cutting edge technology and maximum simplicity.

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PROPOSITION AND PARTNERSHIP

- **E sim & multi IMSI capabilities & process automation**

- **Focus on low bandwidth use cases through lowest cost IoT flat rate**

- **10 years insured lifetime fee model, prolongable**

- **B2B grade support**

- **Tier 1 EU 28 plus 2 connectivity & transparency, more GEOS coming**

- **VPN & automated API & FOTA Services available**

- **NB-IoT, 2G, 3G seamlessly available, Cat M when available**

powered by **T** · ·

Deutsche Telekom AG is partner for 1NCE.

DTAG guarantees transparent IoT connectivity across a vast number of territories with a special focus on Europe.

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THE DNA OF NB-IOT

LOW COST
Of modem (<€4*)

LOWEST POWER CONSUMPTION
Of modem & ultra long batterylifetime (appr. 10 years with two AA batteries)

LOW DATA RATES
A few 100bit/s up to 250kbit/s**

HIGH NUMBER OF DEVICES
~100.000 connected per cell

PUBLIC NETWORK
in operator managed licensed spectrum

DEEP INDOOR PENETRATION, EXTENDED COVERAGE
+ 20dB link budget compared to GSM

EASE OF USE
Direct use – no coupling to HUB (e.g. router, Smartphone)

BI-DIRECTIONAL COMMUNICATION
Uplink and Downlink (Software Updates possible)

3GPP STANDARDIZED
3GPP Release 13

SIM BASED SECURITY
SIM based authentication, integrity, ciphering

* Industry target and requirement in 3GPP. Has to be approved by module suppliers.

** depends on cell load and radio condition

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COMPARISON OF CONNECTIVITY STANDARDS

	LICENSED SPECTRUM BASED STANDARDS			UNLICENSED	
	2G / 3G	**LTE-M**	**NB-IoT**	**LoRa**	**SigFox**
Frequency	GSM Band	LTE-Band	GSM / LTE Band	868 MHz (EU)	868 MHz (EU)
Link budget	144dB	156dB	164dB	150-168dB	156dB
Duplex mode	Full	Full or Half duplex[4]	Half	Half	Half
Transmission (DL) Peak	53,6-7.200 kbit/s	1.000 kbit/s	250 kbit/s	50 kbit/s	0,1 kbit/s (EU)
Roaming	Yes	Yes	Not yet	Not yet	Yes
Mobility	Cell handover	Cell handover	Cell reselection	Cell reselection	Cell reselection
Battery life time	~ 3 years	~up to 5years	~up to 10 years	~up to 10 years	~up to 10 years
Module costs	20 - 5 EUR	12-9 EUR	9-3 EUR	9-7 EUR	3-2 EUR

Sources: Mobile Experts, RioT Research, GSMA, Berg Insight, Deutsche Telekom, Company Information

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PROS AND CONS LICENSED VS. UNLICENSED SPECTRUM

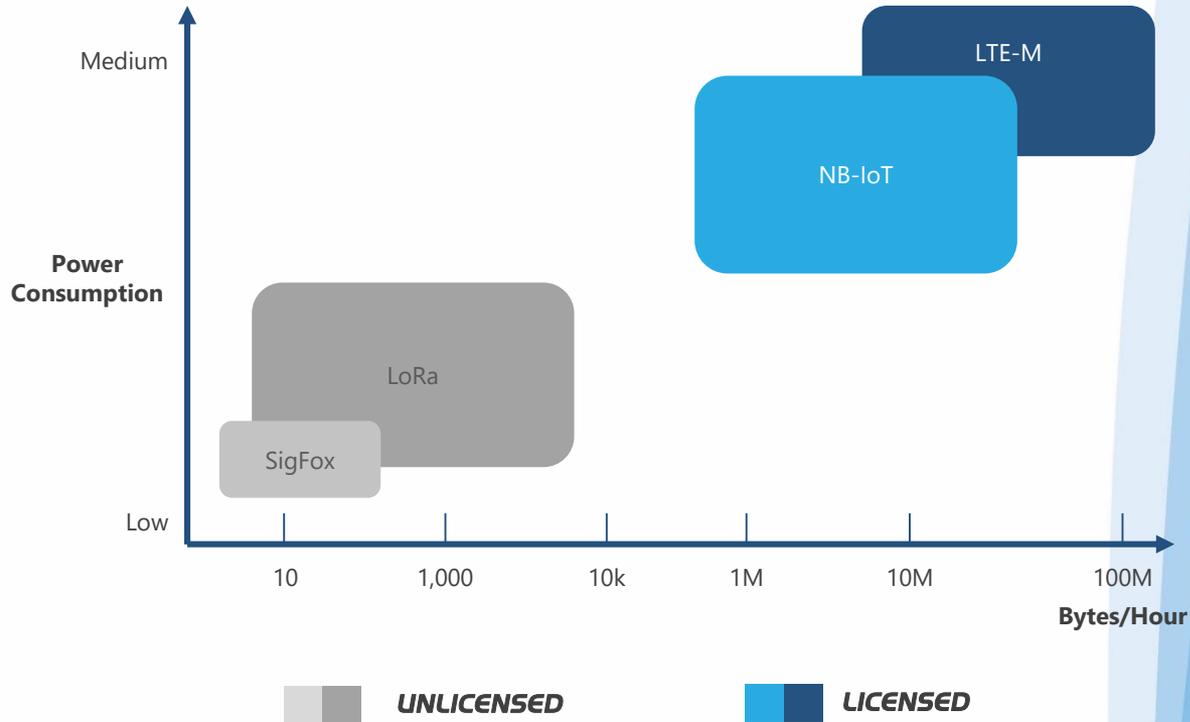| LICENSED (NB-IOT/LTE-M)	UNLICENSED (LORA, SIGFOX)
✓ Proven technology, based on **standardized** cellular technology ✓ Better **capacity** and **coverage,** exceeds unlicensed standards ✓ Leverages **existing** mobile network **infrastructure** ✓ Better **harmonization** of spectrum across countries and regions ✓ Longevity: Owned and controlled by Mobile Operators ➜ stable entities that provide high assurance on **business continuity** over the device lifetime	✓ Allows to **quickly** establish **private networks** that can be deployed everywhere ✓ Already **available in many European countries**
✕ NB-IoT and LTE-M only **available in few countries** so far	✕ **Non-harmonized regulation** across different regions ✕ **Variety of spectrum bands** limits harmonization ✕ **Reliability cannot be predicted** and interference cannot be managed ✕ Only suited for **non-critical applications**

Sources: Mobile Experts, RioT Research, Beecham Research, 1NCE Analysis

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PERFORMANCE COMPARISON LICENSED VS. UNLICENSED

Power Consumption (vertical axis: Low, Medium)

Bytes/Hour (horizontal axis: 10, 1,000, 10k, 1M, 10M, 100M)

- LTE-M
- NB-IoT
- LoRa
- SigFox

UNLICENSED — LICENSED

The data capacity of unlicensed spectrum based connectivity standards like LoRa and SigFox is lower than that of NB-IoT or LTE-M. This is due to a limited number of messages that can be transmitted per day, (especially in European networks). They are primarily designed to transport tens of bytes per hour rather than kilobytes which allows them to consume less power than NB-IoT and LTE-M.

But thanks to an optimized and a lean modem architecture NB-IoT and LTE-M can support similar device lifetimes of up to 5 to 10 years as well.

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TECHNICAL PLATFORM

Lean Core Network

- Cloud-hosted
- Secure
- Everything configurable via APIs
- Single system with multiple core network elements

Automated Lean Platform Services

- Optimized set of features
- Support for M2M customer products
- Self service
- Short implementation time

DISRUPTING THE MARKET FOR IOT CONNECTIVITY

„THIS IS WHAT 1NCE IS PIONEERING –
INNOVATIVE SIMPLICITY AT LOW COST FOR THE IOT.
IOT WITHOUT THE FRILLS.“

Robin Duke-Woolley,
CEO Beecham Research
(Source: IoT now)

"One of the most eye-catching things at Mobile World Congress was 1nce, the Deutsche Telekom backed NB-IoT MVNO."

Matt Hatton,
VP Research at Gartner & former
CEO of Machina Research
(Source: LinkedIn)

1NCE – Winner of the annual Embeddy „Best of Show"Award at MWC 2018

START YOUR GROWTH STORY

WEB SHOP
CONNECTIVITY MANAGEMENT PLATFORM
AVAILABLE

SIGN UP NOW

Pre-Register for the 1nce web shop and be among the first to join the unique IoT Flat Rate offering from August 2018.
www.1nce.com

1NCE REFERRAL PROGRAM

Become a 1NCE partner and benefit from a variety of referral programs.

If you are interested, visit our website or contact us directly via:
sales@1NCE.com

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COMPANY BRIEF

The IoT Natives

1NCE is the first dedicated Tier 1, IoT Carrier providing fast, secure and reliable IoT network connectivity for low data B2B applications.

As a native IoT company, 1NCE makes it as easy as possible for customers to quickly deploy new IoT solutions. The company offers easy onboarding and Tier 1 connectivity at unrivalled low prices – including features like an IoT flat rate and the first of its kind 'BUY ONCE' lifetime fee.

In co-operation with our partner and host network Deutsche Telekom AG, 1NCE guarantees transparent IoT connectivity across a vast number of territories with a special focus on Europe.

powered by

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