

A conceptual illustration of a satellite network. Three satellites are shown in orbit against a starry space background. Dashed lines connect the satellites to each other and to ground stations on the Earth's surface. The ground stations are represented by glowing blue points with multiple curved lines radiating from them, suggesting signal paths or data streams. The overall color palette is dark blue and black, with glowing cyan and orange accents.

# SATELIOT

## The problem

**80% of the world has no mobile coverage**

### Today satellite IoT is not commercially viable for most use-cases

- Most of today's market is serviced by **GEO**, coverage is limited by region and terrain.
- All solutions in the market today (LEO and GEO) use **expensive, proprietary devices** (often >\$100) and operate on closed networks that are satellite-only.
- This makes today's solutions **too expensive to address the vast majority of use cases**.

#### Result:

**Current market is only 4m connections**

## The Solution






### A telecoms-focussed standards-based approach

- As a **LEO solution**, Sateliot provides coverage everywhere.
- Having incorporated satellite NB-IoT into **3GPP standards**, devices can **roam from terrestrial telco networks to satellite**.
- Existing, **sub-\$5 off-the-shelf devices** can be used, and service can be provided close to a terrestrial price point.

**Only 5G NTN NB-IoT can offer coverage everywhere at a terrestrial price point**

# A standards-based approach is the only way to meet customer demands

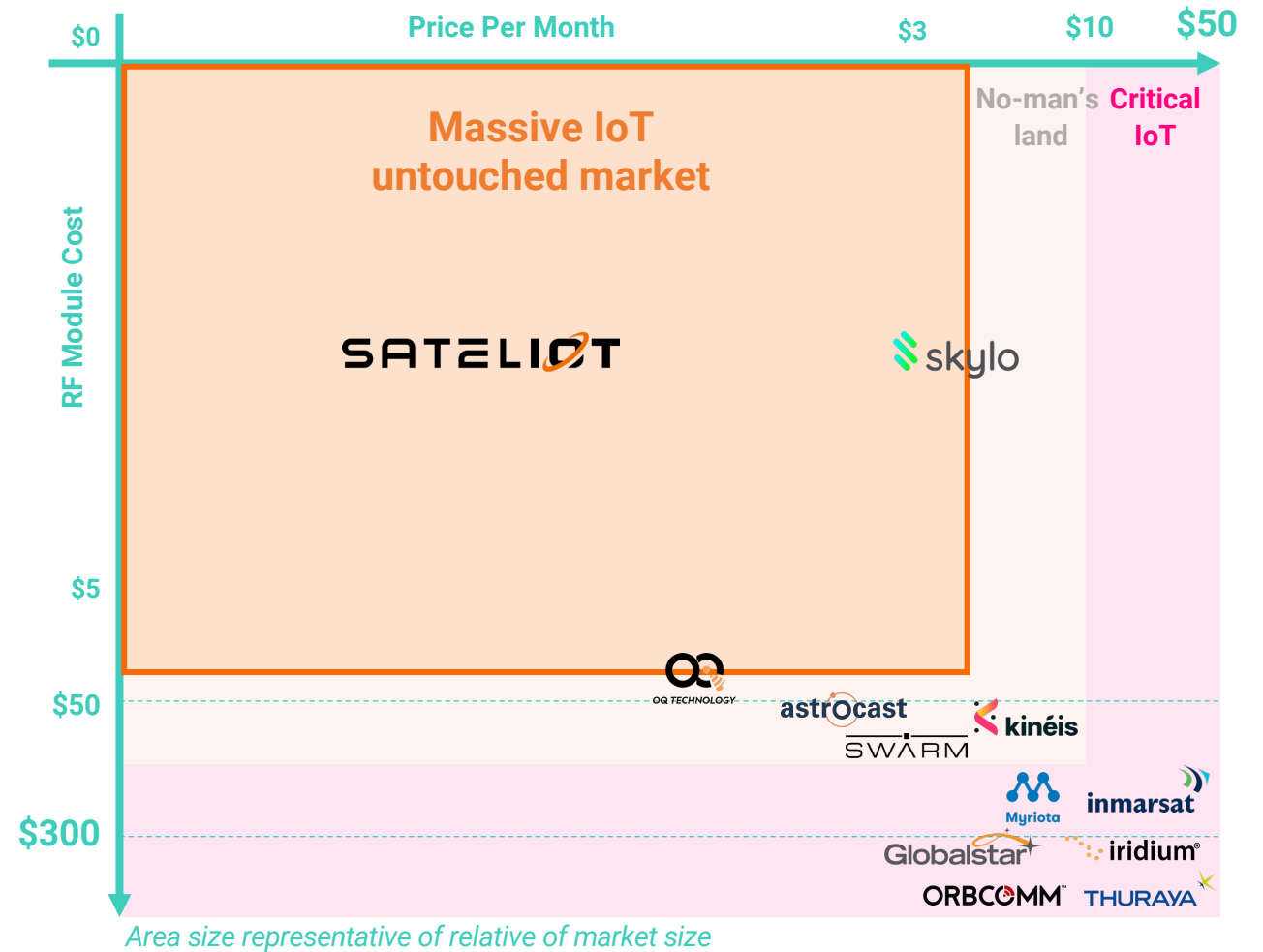
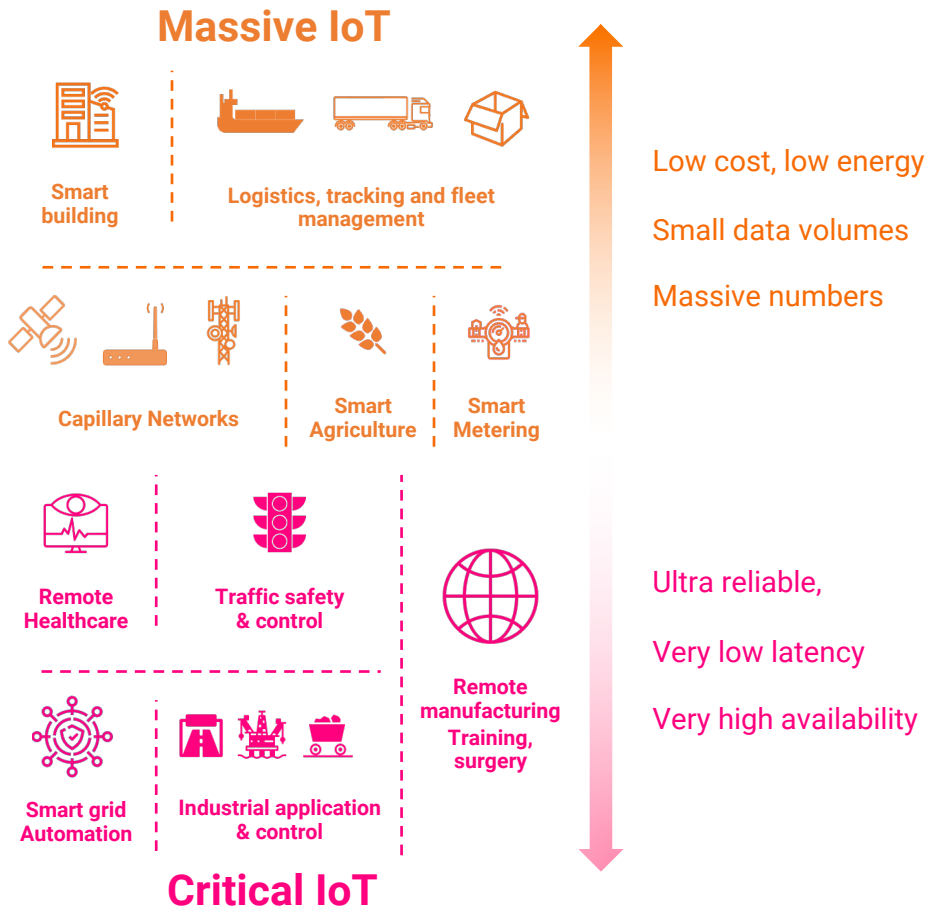
There is a huge market opportunity for Satellite IoT if a solution could use off-the-shelf, non-proprietary technology. They evaluated three standards-based protocols against these requirements.

Customer demands...				 	
1	Designed for massive IoT, and affordable	✓	✓	✓	✗
2	Extension of existing MNO coverage	✗	✗	✓	✓
3	Seamless ability to roam between terrestrial and space infrastructure, with a single device	✗	✗	✓	✓
4	Single point of contact for billing and service, ideally with existing service provider	✗	✗	✓	✓

We selected NB-IoT, and then worked for 3 years with the standards organisation to implement satellite connectivity

# Only NB-IoT NTN can offer a price that unlocks the Massive Satellite IoT market

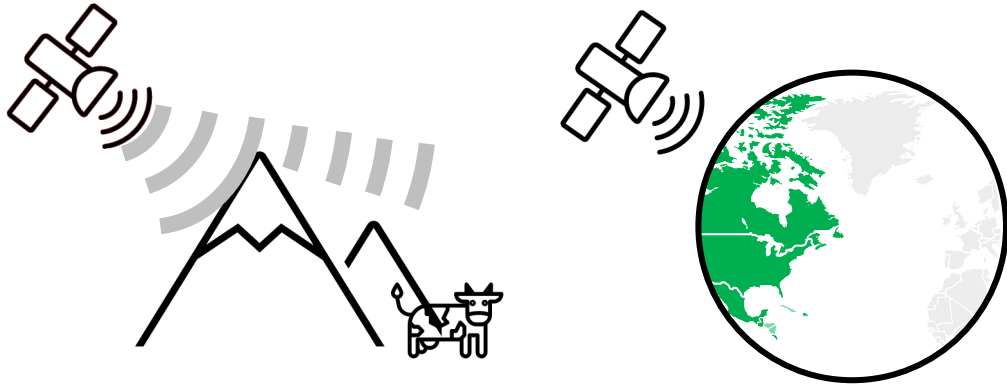
Superior pricing enabled by roaming store & forward, dramatically reducing upfront CapEx



Competition

# A LEO solution is the only way to offer coverage everywhere

**GEO**

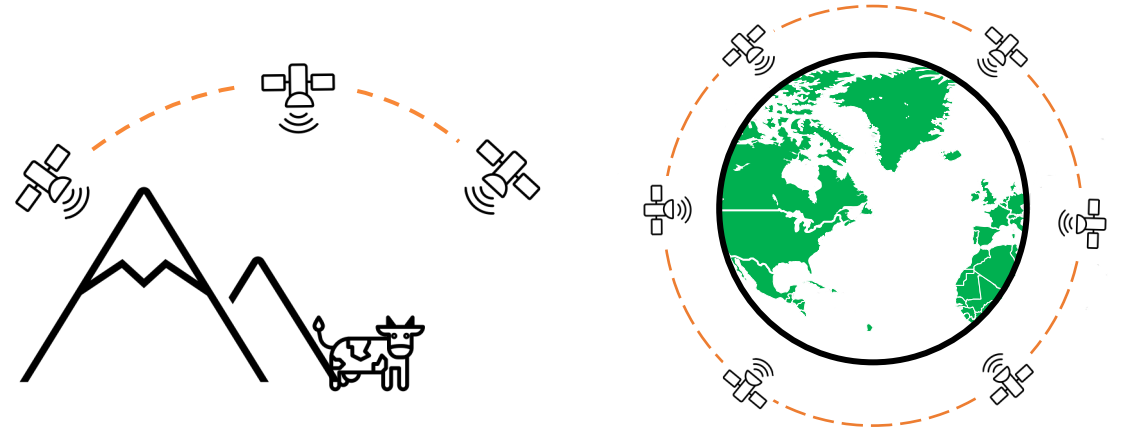


Connection difficulties due to terrain blockage

Specific regional coverage



**LEO**



Unencumbered

Global coverage



Note: LEO (Low Earth Orbit), GEO (Geostationary orbit)

Standards-based approach

# SATELIOT

has **reshaped mobile standards**,  
becoming the **first 5G NB-IoT telecom operator from space**,  
providing **standards-based, low-cost** coverage everywhere,  
by unique implementation of **roaming store & forward technology**

# Sateliot has been #1 contributor from the space industry to the Release 17

Mediatek	60
Ericsson	53
Huawei	50
Nokia	49
Zte	49
Hisilicon	48
Qualcomm	48
Thales	48
Oppo	46
Xiaomi	43
Cmcc	41
Samsung	39
Catt	36
Apple	32
Lenovo	31
Motorola	31
Nec	30
Sony	28
Intel	27
Interdigital	27
Spreadtrum	27
Asia Pacific Telecom	22
Sanechips	22
Fgi	21

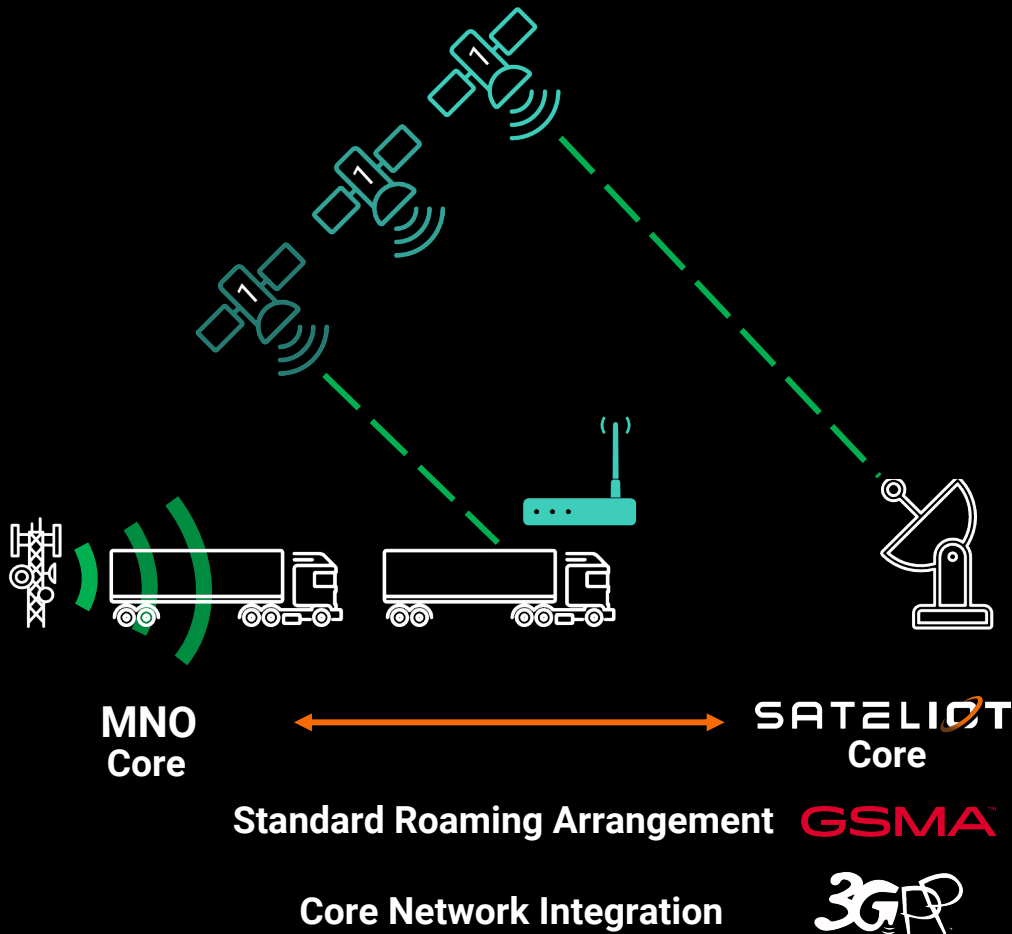
<b>Sateliot</b>	<b>17</b>
<b>Gatehouse</b>	<b>16</b>
Lg	16
Itri	15
<b>Eutelsat</b>	<b>14</b>
Panasonic	14
Iii	13
Convida Wireless	11
<b>Echostar</b>	<b>11</b>
Esa	11
Fraunhofer	11
Caict	10
<b>Inmarsat</b>	<b>10</b>
Vivo	10
Asus	7
Etri	7
Vodafone	7
99 Error	6
<b>Intelsat</b>	<b>6</b>
<b>Kepler</b>	<b>6</b>
Novamint	6
British Telecom	5
Chairman	5
<b>Ligado</b>	<b>5</b>

<b>Omnispace</b>	<b>5</b>
Zhejiang Lab	5
Bupt	4
Ntt Docomo	4
Sequans	4
Tno	4
<b>Avanti</b>	<b>3</b>
Ct1	3
<b>Hispasat</b>	<b>3</b>
Kt	3
Lockheed Martin	3
Cewit	2
Itl	2
Mitsubishi	2
Moderator Ericsson	2
Moderator Mediatek	2
Moderator Thales	2
Moderator Zte	2
Rakuten	2
Reliance	2
Turkcell	2
Acer	1
Chairman Ericsson	1
Chairman Mediatek	1

Chairman NOKIA	1
Chairman QUALCOMM	1
Coordinator MCC	1
DEUTSCHE TELEKOM	1
EDF	1
ESOA	1
IITH	1
IITM	1
MAGISTER	1
MAVENIR	1
Moderator EUTELSAT	1
Moderator NOKIA	1
Moderator QUALCOMM	1
Moderator SAMSUNG	1
NCCUNTU	1
NOMOR	1
<b>OQ</b>	<b>1</b>
PHILIPS	1
SAANKHYA LABS	1
SHARP	1
SIERRA WIRELESS	1
SOFTBANK	1
TELECOM ITALIA	1
UNIBO	1



# Sateliot's approach enables seamless terrestrial extension cost-efficiently



- ✓ Same device (<\$5 OTS)
- ✓ Seamless end-user experience (ROAMING)
- ✓ Customer keeps 1 point-of-contact for billing/support/etc
- ✓ Immaterial price increase vs current contract
- ✓ Service provided with fewer satellites using patent pending store & forward technology
- ✓ New capex-free revenue stream for the MNO

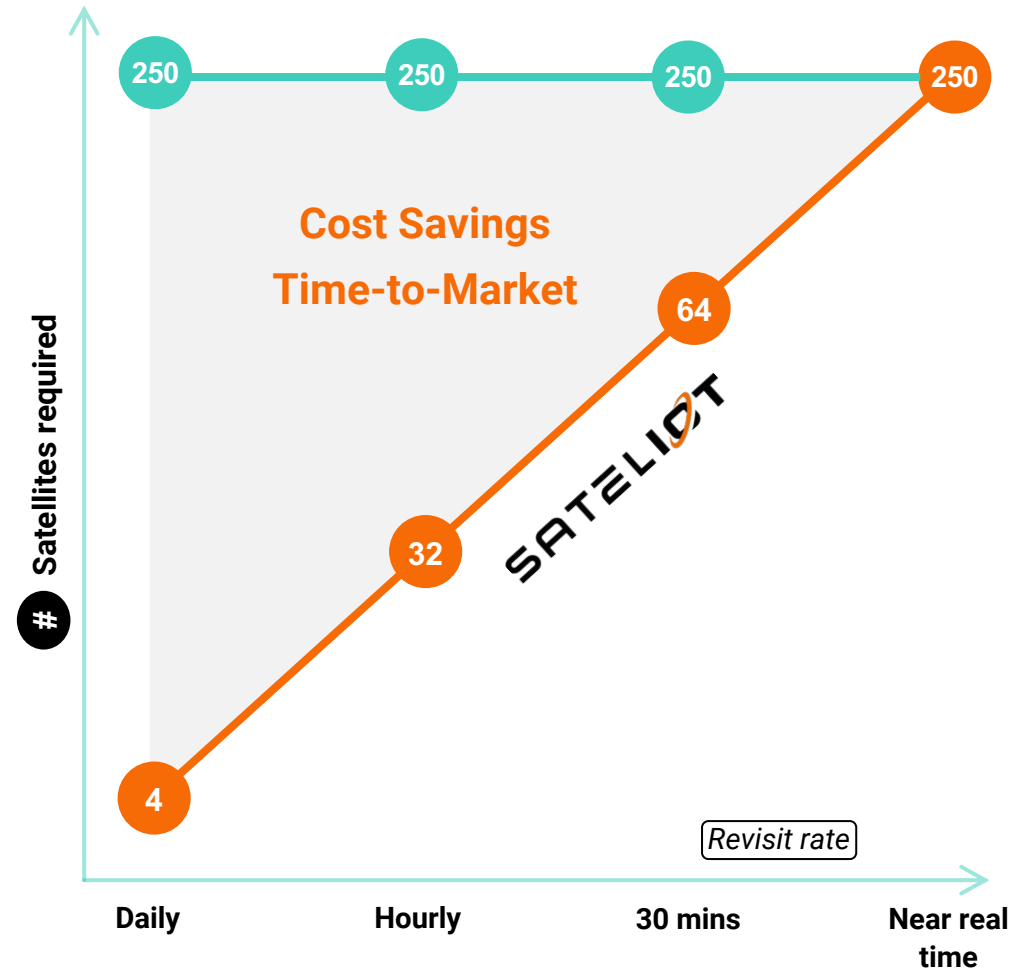
Technology

## Roaming store & forward tech allows Sateliot to begin delivering service with 4 satellites

Competitors using a similar standards-based approach would need to launch 250 upfront

**SATELIOT**  
can...

- ▶ Service the market years ahead of anyone else
- ▶ Go-to-market with a much lower capex requirement
- ▶ Become profitable without servicing the NRT market



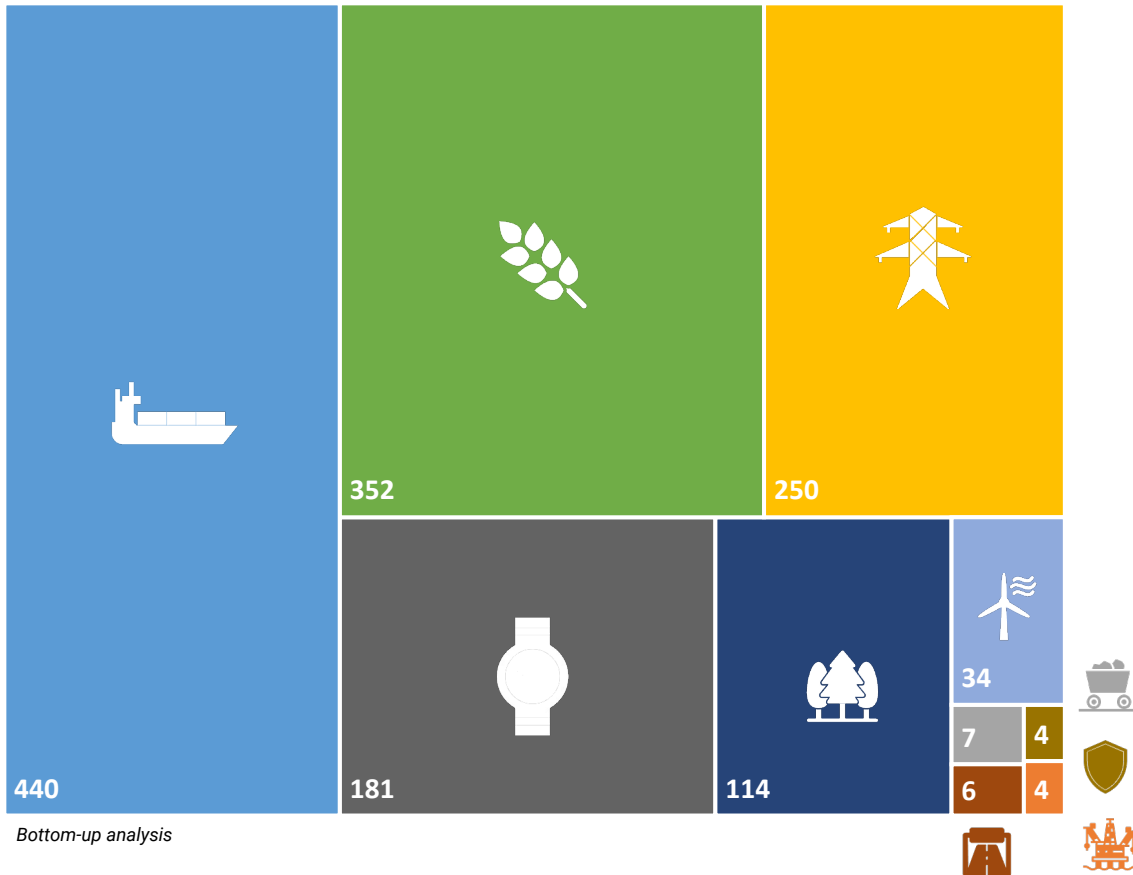
# Satelite is the only satellite NB-IoT addressing customer demands affordably

	Telecoms led Approach			NewSpace disruptors		Direct 2 Device (D2D)		Legacy Incumbents	
	SATELIOT								
Headquarters	Spain	Luxembourg	USA	Switzerland	France	USA	USA	USA	UK
Market segment	IOT	IoT	IoT	IoT	IoT	D2D	D2D	Voice & Data	IoT
Orbit	LEO	LEO	GEO	LEO	LEO	LEO	LEO	LEO	GEO
Network	Standard	Standard <sup>1</sup>	Standard	Proprietary	Proprietary	Std Phone	Std Phone	Proprietary	Proprietary
Full GSMA membership	GSMA™	✗	GSMA™	✗	✗	✗	✗	✗	GSMA™
Standard Device	✓	✗	✗	✗	✗	✓	✓	✗	✗
Roaming terrestrial	✓	✗	✗	✗	✗	✓	✓	✗	✗
Power Utilisation	Low	Low	Low	Low	Low	High	High	High	Low
Roaming Store & Forward	✓	✗	✗	✗	✗	✗	✗	✗	✗
Delivery via MNOs	✓	✗	✗	✗	✗	✓	✓	✗	✗
Cost per device	\$	\$\$	\$	\$\$	\$\$	\$\$\$	\$\$\$	\$\$\$	\$\$\$
Services cost	\$	\$	\$\$	\$	\$	\$\$	\$\$	\$\$\$	\$\$\$
Service deployment cost	\$	\$\$	\$	\$\$	\$\$	\$\$\$	\$\$\$\$	\$\$\$	\$\$\$

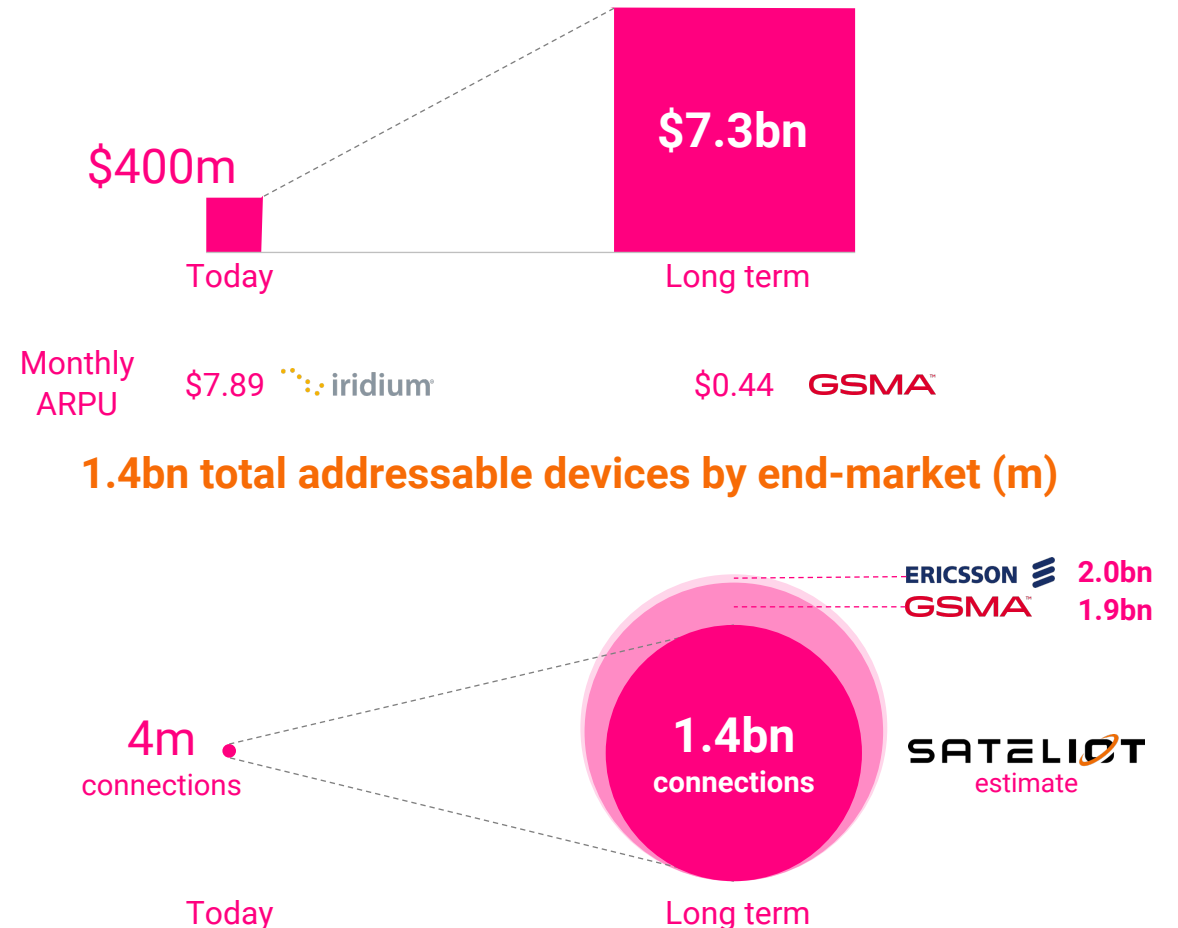
<sup>1</sup> Proprietary device

Market

# To open the opportunity to address potential 1.4bn devices currently unserviceable



Once unlocked by Sateliot pricing, these connections will generate \$7.3bn in annual revenues



Sources: Company Analysis, Silverpeak Analysis, GSMA, Space News. Market price is the FY-22 Iridium ARPU (Average Revenue Per User); \$400m market size assumes 35% Iridium market share

Technology

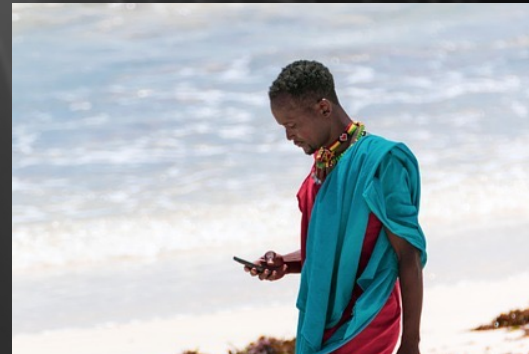
# And direct to device: will it be NTN NB-IoT? 5G NR? Or 6G?



OVER 500 MILLION WORKERS WORLDWIDE



OVER 750 MILLION HOBYSTS WORLDWIDE



BILLIONS OF PEOPLE IN VERY LOW  
COVERAGE AREA



60M AMERICANS WITH 25% OF THE DAY  
WITH NO COVERAGE