

Stefano Ruffini, Chairman

3-5 November 2020



# ITSF – International Timing & Sync Forum



## Founded 2001



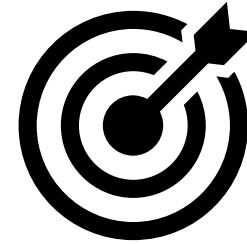
Industry experts led  
by Charles Curry,  
Chronos Technology

## Steering Group



30 members from all  
Industries

## Mission



... to encourage a wider  
understanding of the  
needs for synchronisation,  
time and timing in critical  
infrastructure and wider  
applications, by bringing  
together individuals from  
industry, government and  
academia ...

## Event Management



## EIE:

Andy Bateman  
Carole Mayhew  
Callum Bateman



# Growing interest in Sync



## ITSF17

**170** Delegates  
19 Operator/End Users  
25 Countries

## ITSF18

**176** Delegates  
25 Operator/End Users  
29 Countries

## ITSF19

**243** Delegates  
37 Operator/End Users  
32 Countries

## ITSF20 ?

**500+** Delegates  
60+ Operator/End Users  
42 Countries



# What is happening



## 5G deployments

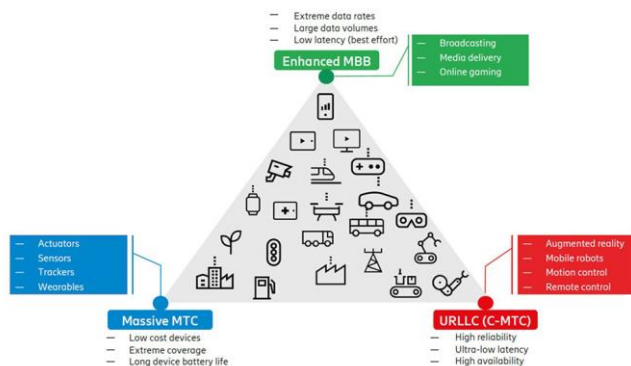
- Wider use of TDD
- Not only Mobile Broadband: 5G IoT (e.g., integration with TSN)
- Evolving fronthaul

## Addressing GNSS Vulnerabilities

- New Satellite systems and technologies
- Redundancy schemes
- New sync technologies

## Evolving Standards

- IEEE 1588 -2019
- IEEE 802.1AS-2020
- ITU-T: evolving G.8276x /G.827x series
- 3GPP timing related studies and specs



# Global Conference on Timing and Synchronisation



**Across Networks:** TELECOMS - AUTOMOTIVE - SMART GRID - FINANCE - BROADCAST - DATA CENTERS - IOT - DEFENCE - TRANSPORT

- **#ITSFOnline**

- Over 70 expert speakers
- Interactive virtual exhibition
- Breakout sessions
- Live panels
- Fully integrated networking
- [Online Tutorials](https://itsf2020.executiveindustryevents.com/Event/Programme/programme.php)

Day 1

**5G and Evolving  
Networks  
(1-4)**

Multitrack (1a, 1b)

Day 2

**Delivering Resilient  
and Assured Time  
(1-4)**

Multitrack (2a, 2b)

Day 3

**Implementation of  
Time and Sync  
(1-4)**

Multitrack (3a, 3b)

<https://itsf2020.executiveindustryevents.com/Event/Programme/programme.php>



# Conference Logistics



**Virtual conference with real-time opportunities for interaction with speakers and sponsors**

## **Every Day:**

### **- Main Sessions**

With opportunities for live interaction with the speakers

### **- Breakout Sessions**

Deep dive sessions on specific topics

### **- Multi-track Sessions**

Delegates can choose one of the talks to follow and interact with the speaker via chat window

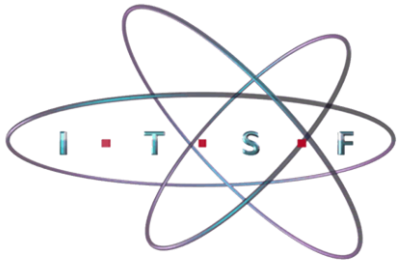
### **- Virtual Exhibition**

open throughout the conference, allowing delegates to interact with exhibitors.

## **Pre-recorded Talks, speakers available online**

- Live panel Q&A at the end of each session
- Delegates will be able to type questions in the chat thread; Session chair will direct them to members of the panel for the Live Q&A session
- Similar chat thread available during each video; speakers can respond to chat questions live during the presentation.
- The chat thread is cleared at the end of each presentation.
- All chat threads are being archived.





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2020

