Technical Video Services Information & Guidelines for HOC

Feb 2016

Information prepared by Hans-Peter Weiss (ICF)

1) Basic description / signal requirements
2) Hardware – Setup/power requirements
3) Process Video production
   (e.g. for World Cup Series)
4) Staff
5) ICF role

Technical Video Services (TVS)

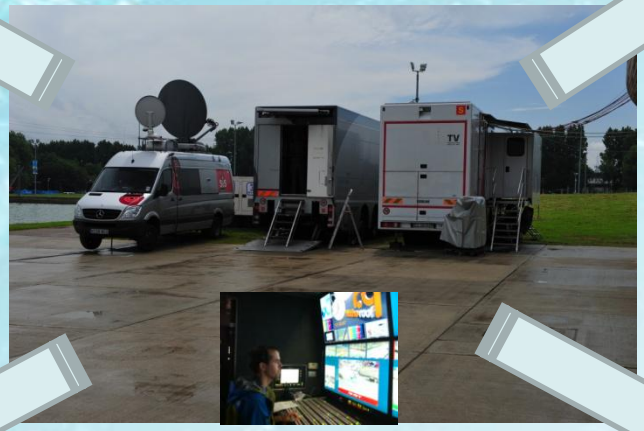
Fundamental Function:

TVS delivers the central video signal for all Level 1 and 2 ICF competitions.

TVS has a number of clients and must be capable of serving the following users:

1) NF Teams (Coaches/Sport Scientists/Team Leaders)
2) ICF Technical Officials (Chief Judge/ Video Judges)
3) HOC Services; Video wall, public screens if Live TV not available
4) Video on Demand (VOD) streamed on the internet where appropriate

TVS
over view



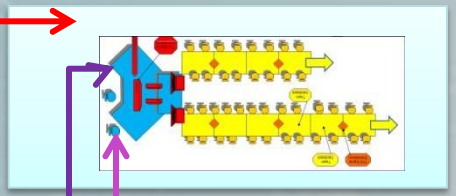
What's the standard in 2016

- HD 1080i (720p) World Cup/Olympic Games/World Championships (live feed)
- *Local Video download via Siwidata Server*

typical setup

Nations Area

TVS_Distribution
Team Area



Gbit LAN (video + results)

all Broadcasting + TVS feeds

A-Feed

B-Feed

TVS Video-production

LIVE

RESULTS

Timing + Scoring

Chief Judge

slomo.tv

GAME BREAKER

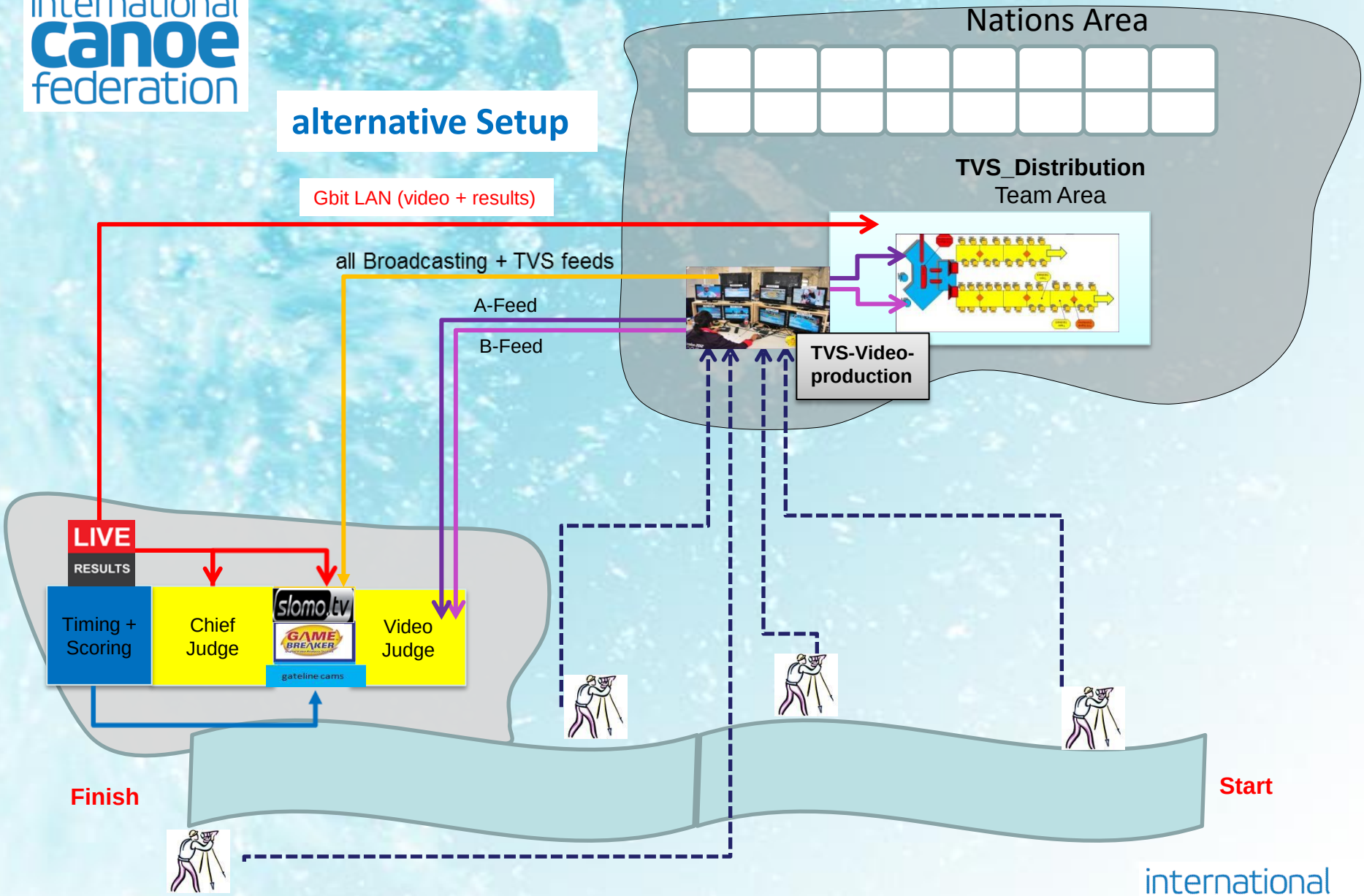
gateline cams

Video Judge

Finish

Start

alternative Setup



Video Judges Work Space

Video Judge

floor space: minimum **7.0m²**
(chairs/ gangway /store…)

table space: minimum **4.5m²**

over all **12-16m²**

- Location is inside the OVR area !

Hardware Requirements Video Judge Area

HOC hardware :

(please provide at least one day before demonstration run)

- 2 TV monitors (22-24 Zoll/HDMI ≥ 1920 x1200/remote with new battery)
- 1 PC/TV monitor **(32 Zoll / ≥ 1920 x1200 /HDMI)**
- 1 PC/TV monitor **(40 Zoll / ≥ 1920 x1200 /HDMI)**
- 4 HDMI cable (PC to monitor)
- 3 table (each ≥ 2m x ≥ 1 m)
- 8 chairs
- 2 power sockets (different phase !)
- 1 podium ≥ 50cm for 1 TV (32 Zoll)

Video Judging support by

Sportstec

GAME BREAKER

slomo.tv

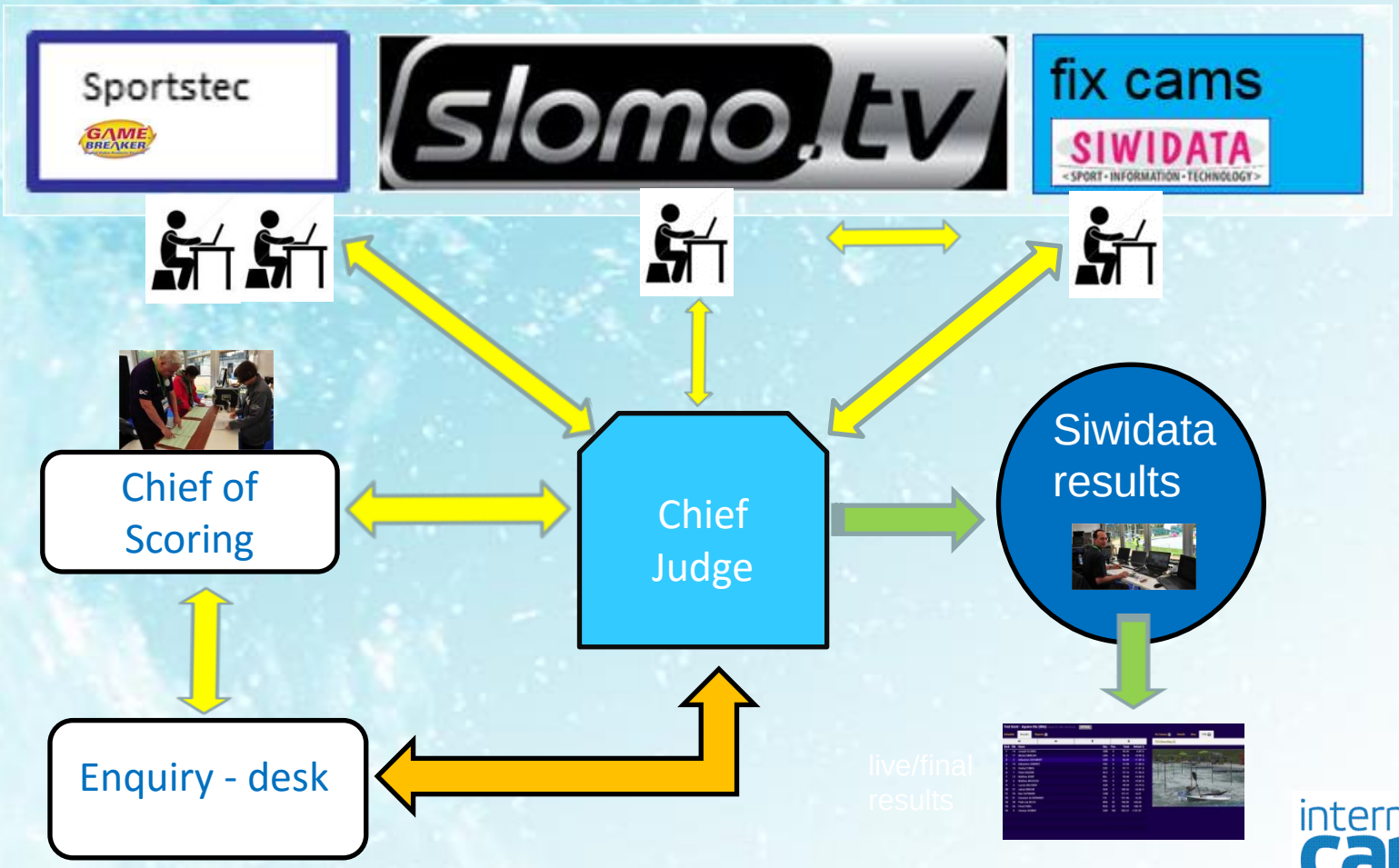
fixed cams

SIWIDATA

<SPORT · INFORMATION · TECHNOLOGY>

Please refer to the hardware list Video Judge area next page

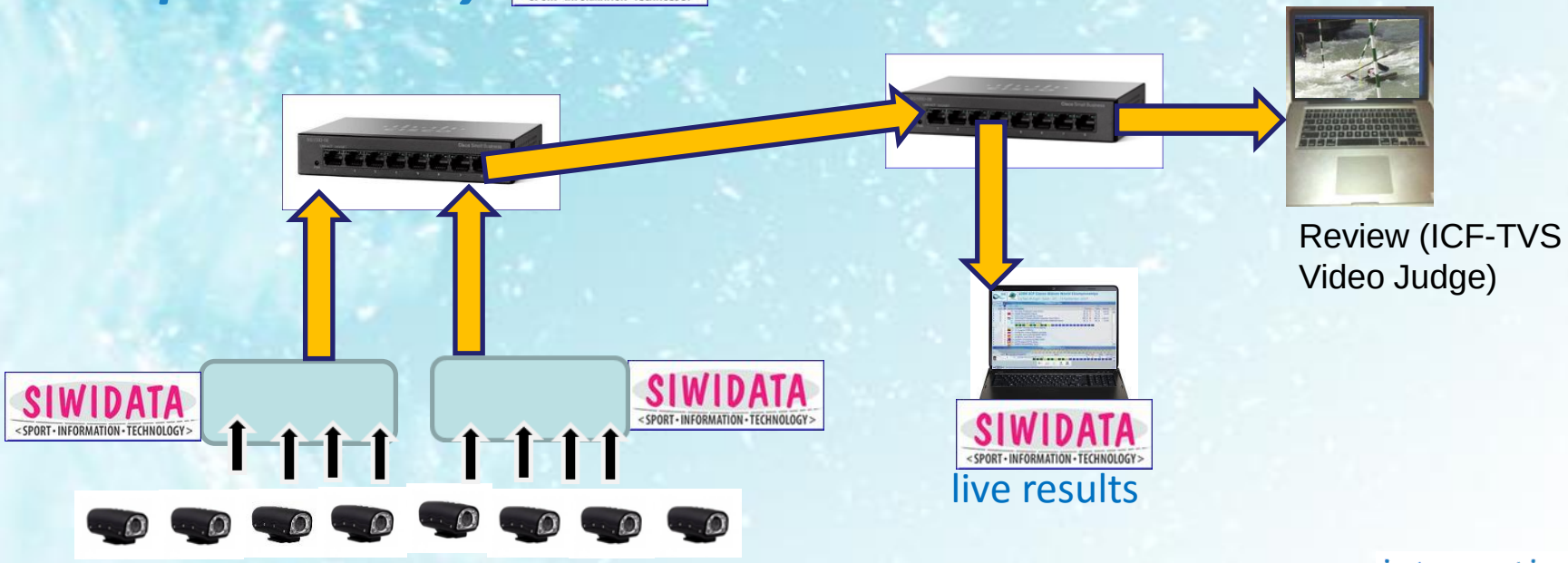
Typical Video Judge setup/ process



operate up to 12 broadcast /TVS feeds

Detail of signal distribution gateline cams to VJ + Chief Judge in HD 720p via Gbit-LAN Network

provided by SIWIDATA



7-8 gateline cams SIWIDATA over LAN

Nation Distribution (Teams Area) Work Space

Up to 28 work spaces for each team to receive the TVS signal in HD

complete space: minimum : **110 m²** Worldcup + Jun+U23 WCH
150 m² WCH

Table space: **1,5-2,0 m²** per Nation + 1 work spaces for main distribution **6 m²**

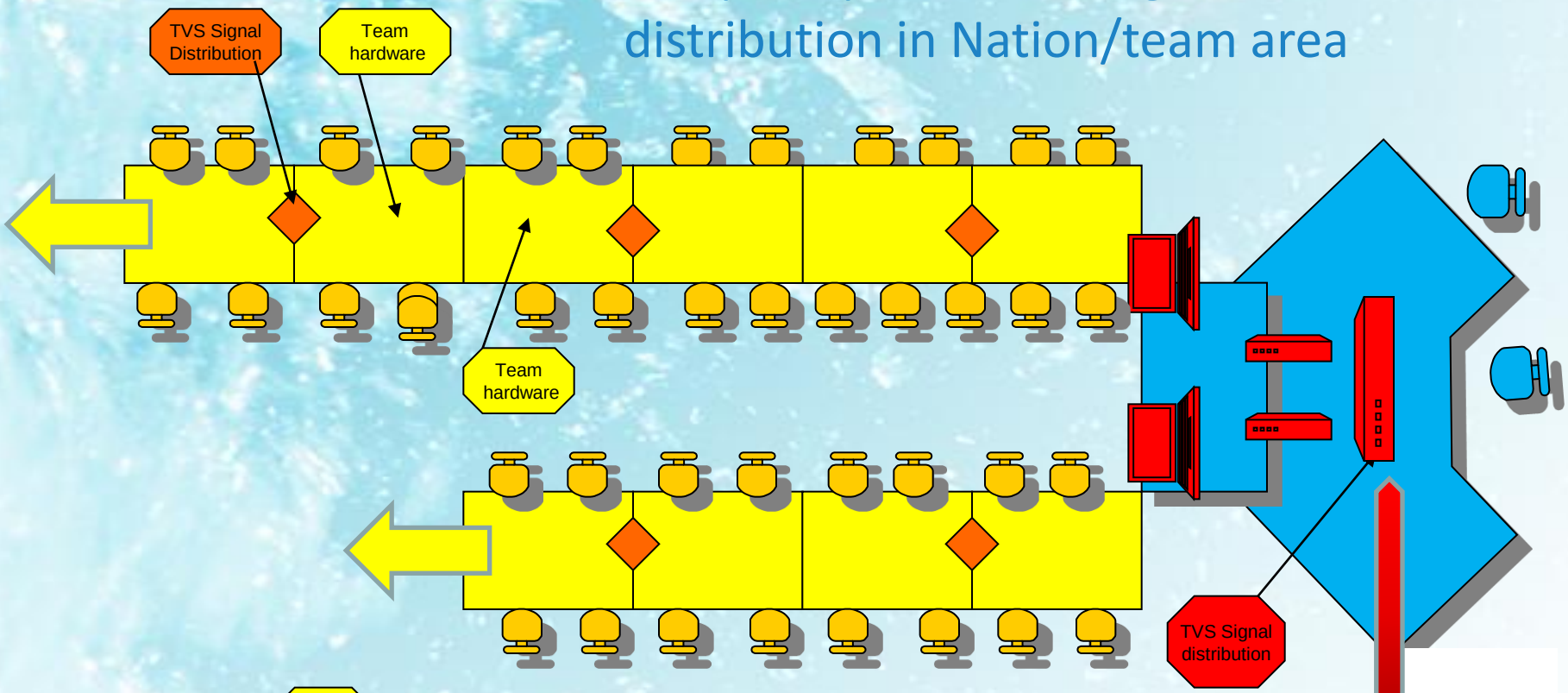
Close as possible to TVS production or Video Judge area (**less** than **80m** is fine)

Hardware Requirements Nation Area

HOC hardware : (please provide at least one day before demonstration run)

- 2 TV monitor (≥ 24 Zoll HDMI/ remote with full batterie)
- 2 HDMI cable
- 28-(36) table (≥ 2m x ≥ 0,8m)
- ≥ 50 chairs
- 28 power sockets (one for each team)
- 2 rubbish bin

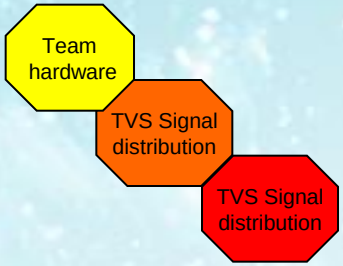
Sample layout of TVS signal/LAN distribution in Nation/team area

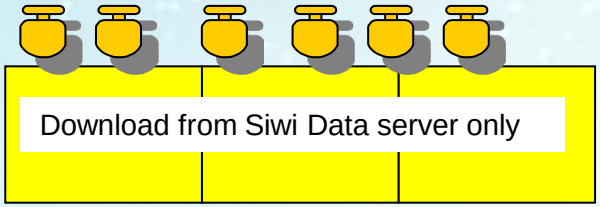


10 fuses 16 A /2500 W

1 fuse 16A/ 2500 W

1 fuse 16A/ 2500 W





HD 720P VIDEO

Full HD 1080

Typical “Fuse Box” TVS Nation Area

28 Teams

Team hardware

ICF

ICF

Fuse 1-10 (16 A !) for team tables

Team hardware

TVS Signal distribution

TVS Signal distribution

phase 1	phase 2	phase 3

Power Consumption Requirements

This outlines the maximum power requirement of each TVS module.

Basic Modules

- TVS signal distribution
- Camera operations
- Video Judge area
- Distribution to Nations needs

Optional Modules

- OB van
- Video production
- Video capture
- Video on Demand (VOD)

The requirements of the basic modules are not able to be changed. The optional modules may vary to meet the needs of the event.

Basic Modules

TVS Signal Distribution Module

Contents: up to 20 Distributors (serving 28 nations), control Monitors (2), TV-Screen for Live results, Laptop, DVD/ HD recorder, WLAN Antenna, LAN network,

Power requirement: 1200 W

Camera Operations Module

Contents: up to 4- 6 cameras on course with power feed.

Power requirement: 500 W

Distribution to Nations needs

Contents: up to 28 workstations for nations, each with power for laptops, monitors, printers, external hard drives with their own power supply , UPS

Power requirement: 25,000 W

Optional Modules

OB Van Module

Contents: Complete Braodcasting (incl. switching), external from video-coaches area

Power requirement: please request broadcaster / contractor

Video Production indoor

Contents: Complete switching, internal from video-coaches area

Power requirement: 3500 W

Optional Modules continued…

Video Capture Module

Contents: up to 3 Workstations for video-capturing, streaming Internet-TV

Power requirement: 2500 W

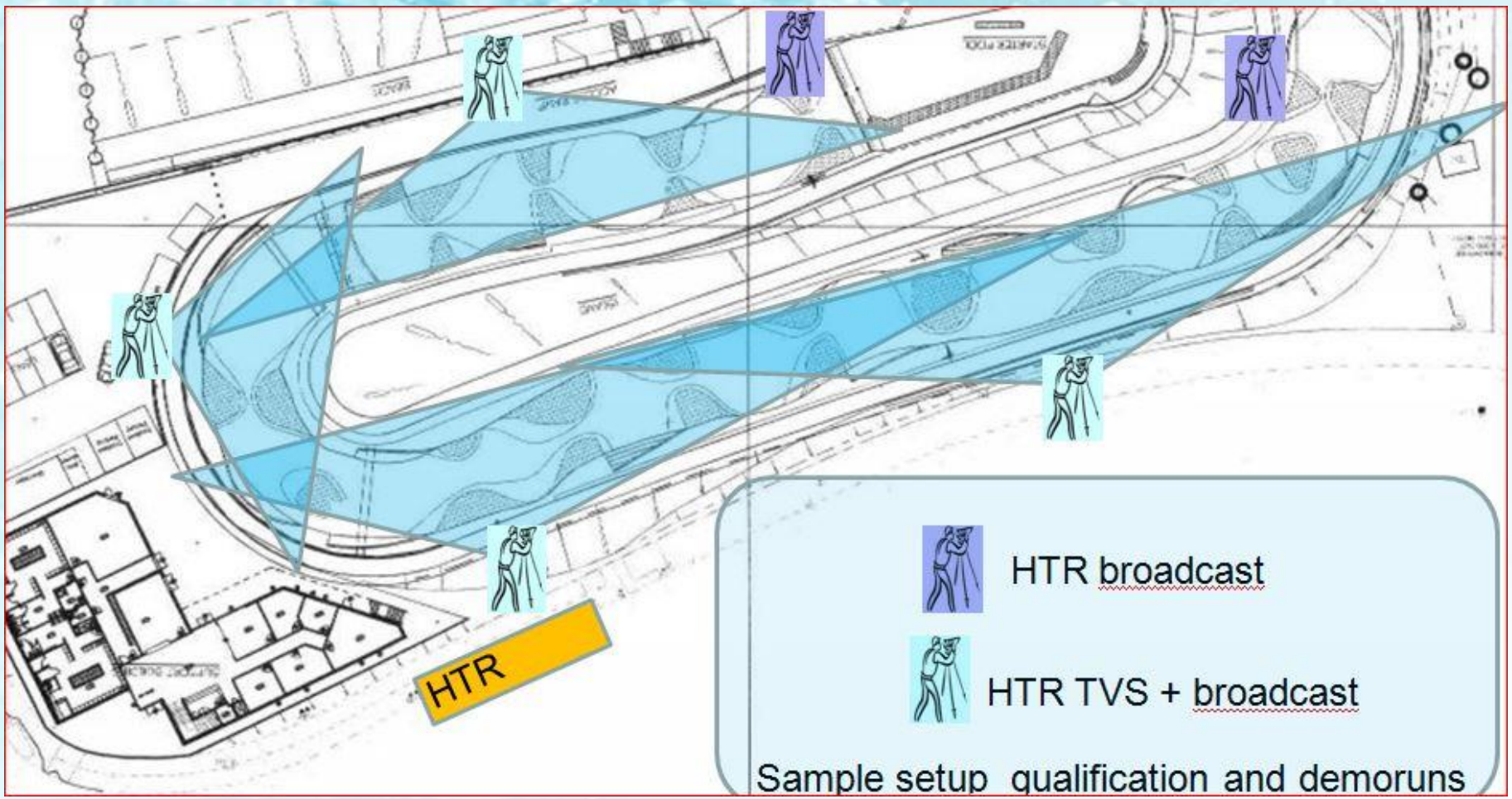
Video Judge Module

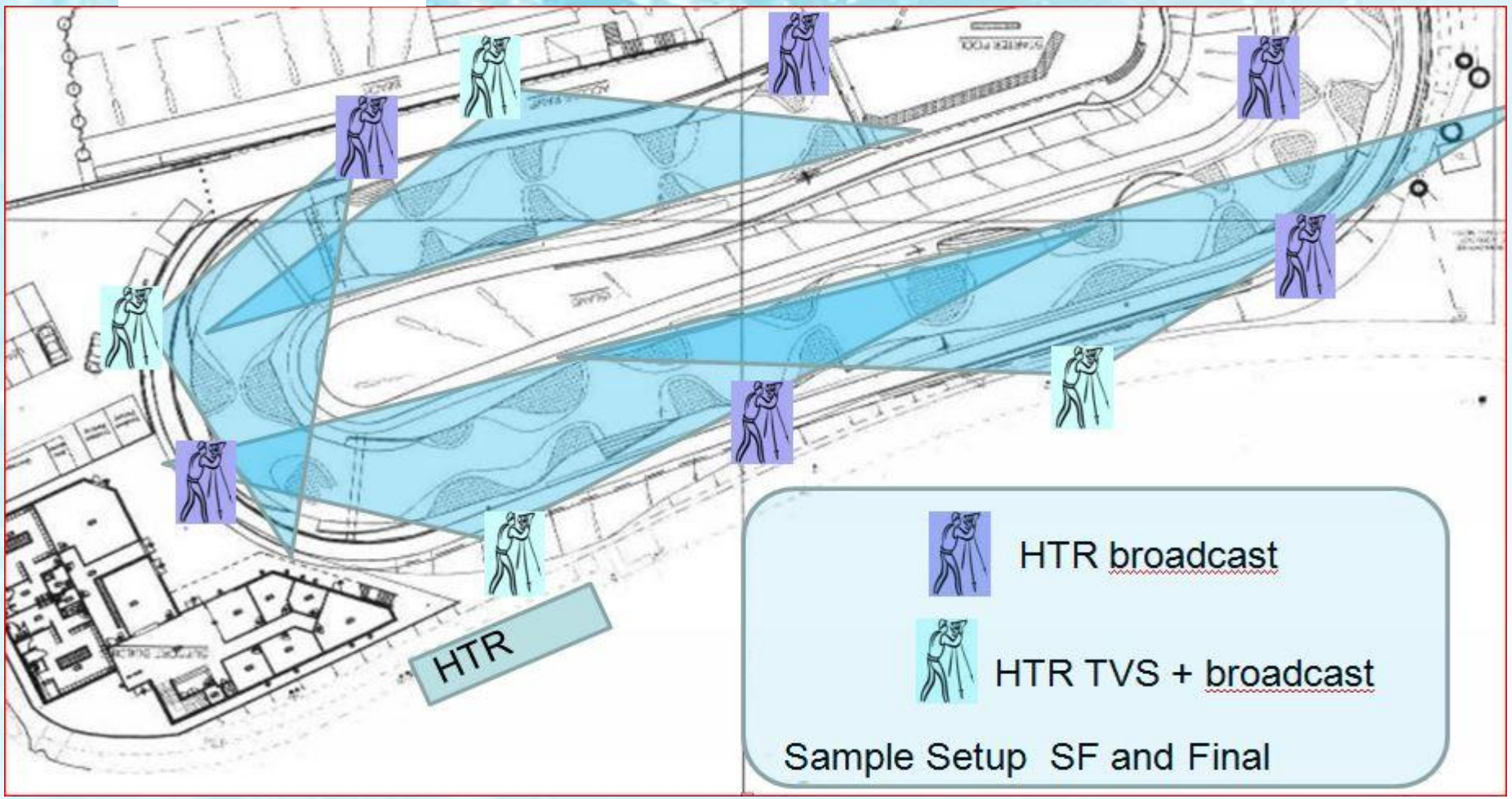
Contents: 4-5 workstations for video judging (TV-monitors, PC-monitors, laptops, LAN - hardware, external hard drives , HD distribution amplifier,

Power requirement: 1500 W (two phase !)

Video Production Process

HTR (TVS and Broadcast as a one stop shop)


HTR
HTR broadcast
HTR TVS + broadcast
Sample setup qualification and demoruns


HTR
HTR broadcast
HTR TVS + broadcast
Sample Setup SF and Final

Qualification 1+ 2

5-6

Semifinal

10-11

Final

10-11

Feed A

TVS ODD

TVS switcher 1

TVS switcher expert

TVS

TVS switcher 1

TVS switcher expert

TVS

TVS switcher expert

Feed B

TVS EVEN

broadcast director

TVS switcher 2

TVS

broadcast director

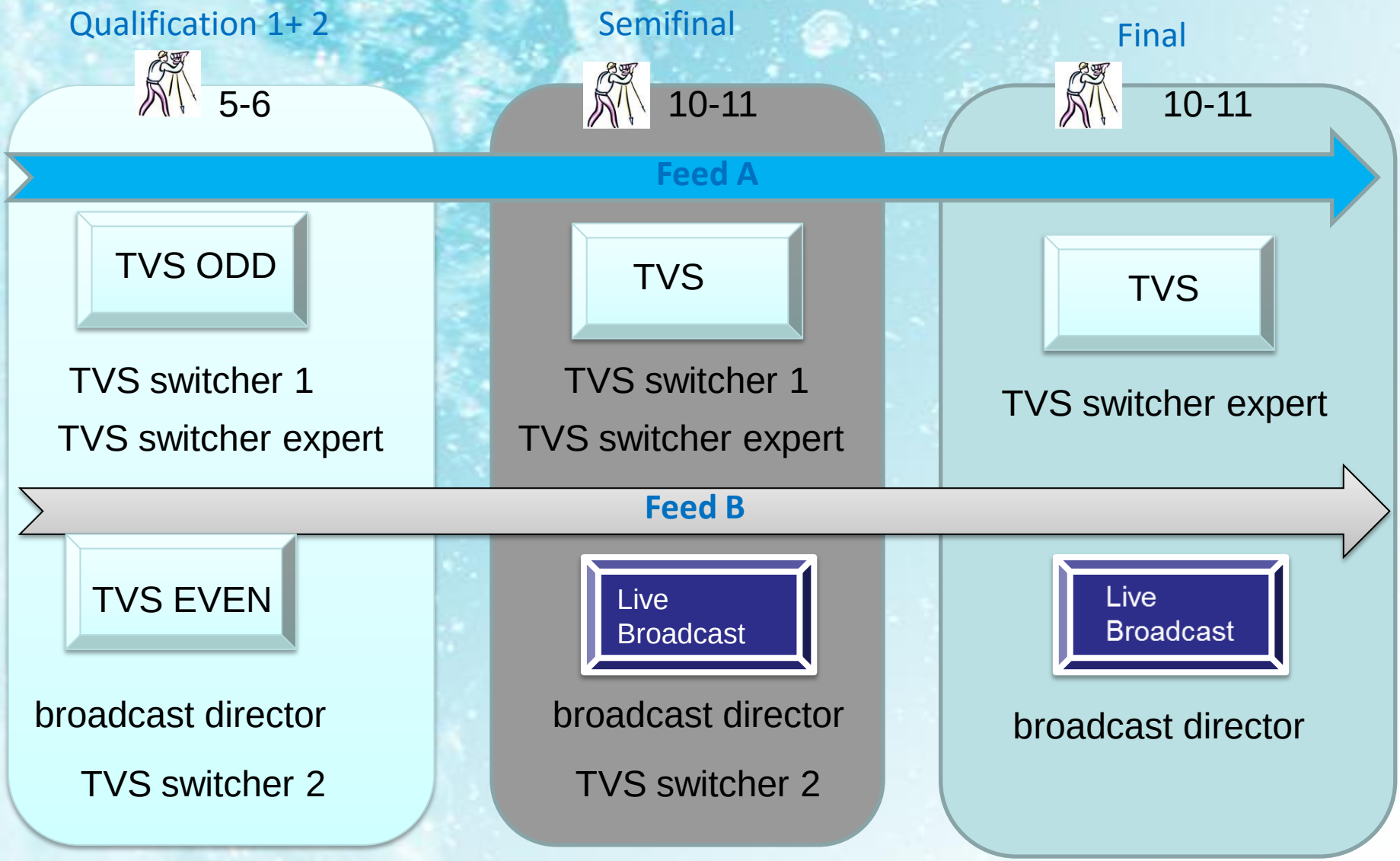
TVS switcher 2

Live Broadcast

broadcast director

Live TV in all Finals

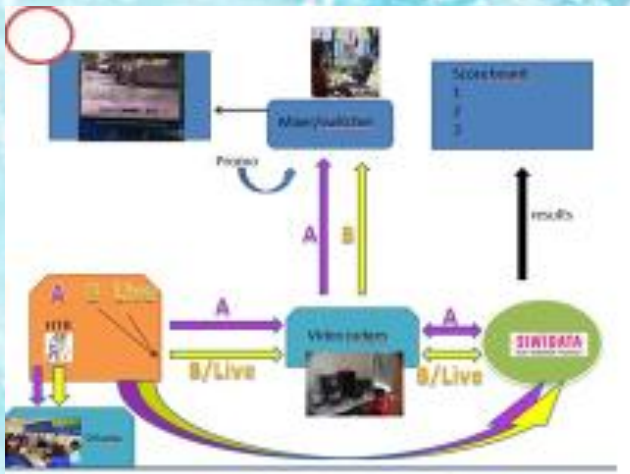
international canoe federation

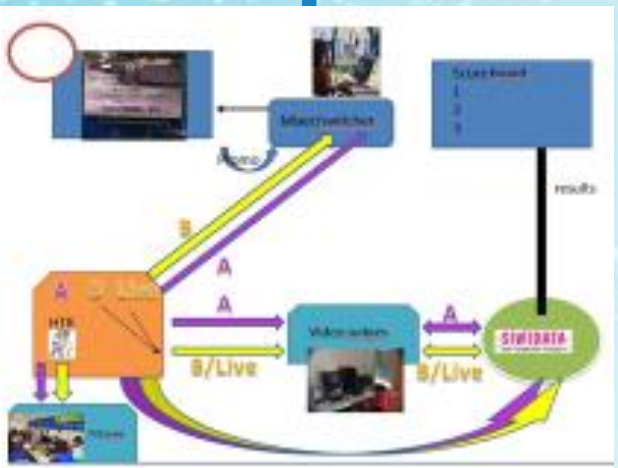


Live TV in all Semifinals and Finals

international canoe federation

Videowall Setup

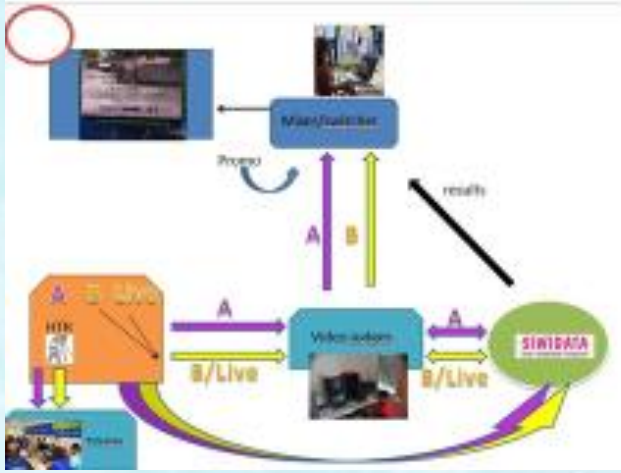


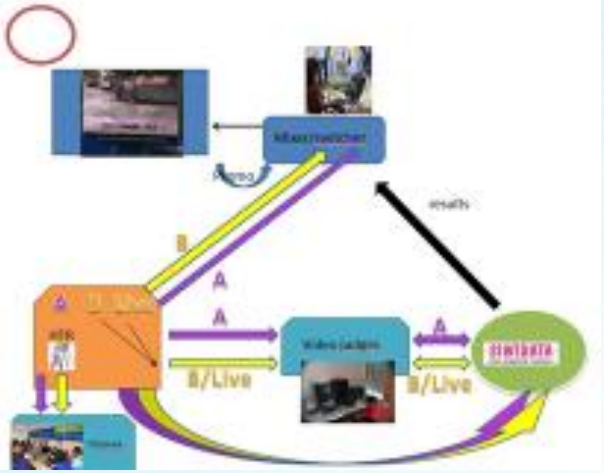


Video wall setup ready at _____ !

contact person:_____

pick of the signals from Siwi or TV(graphics ?) (in BNC/HD-SDI in 1080 i/50) by the video wall contractor !





Cabling, staffing, operater, hardware, ……..a lot of questions to resolve!
This area needs discussion between the ICF TVS co-ordinator and the Videowall operator

international canoe federation

- The video wall contractor must provide the cable to pickup the 3 feeds (A feed, B feed, yellow and black results feed) from the Broadcast truck or the OVR.
- All 3 feeds are provided in HD-SDI, RG59 or RG60, 1080 50i and not in HDMI !

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ICF role in 2016:

- Planning / set up / training
- Provide guidelines (hardware, logistics)
- Troubleshooting
- Hardware for distribution in HD
- Technical support and knowledge transfer
- Provider links i.e. HTR, videowall company etc

TVS staff are a mix of

- Technical Volunteers provide by organisers (1-2) and ICF(1-2)
- Professional companies
- National Team members (supporters)

Where to find support

There will be a ICF TVS coordinator available for your questions and help at each ICF event and also for you preparation if needed.

Please contact:

Hans-Peter Weiss

(ICF TVS coordinator)

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Skype: hans-peter.weiss