



2024年パリオリンピックの学びと国内展開

JTU技術委員会・審判委員会合同セミナー

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2025年1月12日

Vol. 3

目的

1. オリンピックでの経験を国内大会に適応する
具体的な方法を提案
2. テクニカルオフィシャル (TO) として成長する
ためのヒントを共有

本日参加の皆様への質問

1. 技術代表、HR、チーフ、アシスタントTOが大会前にすべきこととは？
2. TO数が不足している際の対策とは？
3. 正確な距離測定の方法とは？
4. リハーサルはなぜ必要か？
5. 競技スタート前の会場の管理とは？
6. TOの正しい日本語訳とは？
7. 国内・国際大会で求められるTOの資質とは？
8. EOM&CRをどのように適応すべきか？
9. 2026年に国内で開催される国際大会とは？
10. サステナビリティ対策とは？

Zoom Meeting

Newsletter

Positive Energy

Athlete Guide

2nd&3rd Position

Tools

Communication

EOM&CR

TO Assignment

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10. サステナビリティ対策とは？

Equipment

Operation Plan

Pontoon Draw

Plastic vs Glasses

Asian Games

Technical Official vs 審判員

Rule50

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Paris2024オリンピック概要




■開催日時

- 女子個人: 7月31日（水）午前8時～（日本時間午後3時）
- 男子個人: 7月31日（水）午前10時45分～（日本時間午後5時45分）
※男子個人は当初7月30日に予定されていた
- 混合リレー: 8月5日（月）午前8時～（日本時間午後3時）

■競技会場

パリ市内のアレクサンドル3世橋周辺

Paris2024 by Olympic.com

Women Individual	Men Individual	Mixed Relay
July 31 st , 8:00a.m.	July 31 st 10:45a.m.	August 5 th 8:00a.m.
		
https://olympics.com/ja/paris-2024/videos/mixed-relay-final-triathlon-olympic-games-paris-2024	https://olympics.com/ja/paris-2024/videos/men-s-final-triathlon-olympic-games-paris-2024	https://olympics.com/ja/paris-2024/videos/mixed-relay-final-triathlon-olympic-games-paris-2024

VENUE

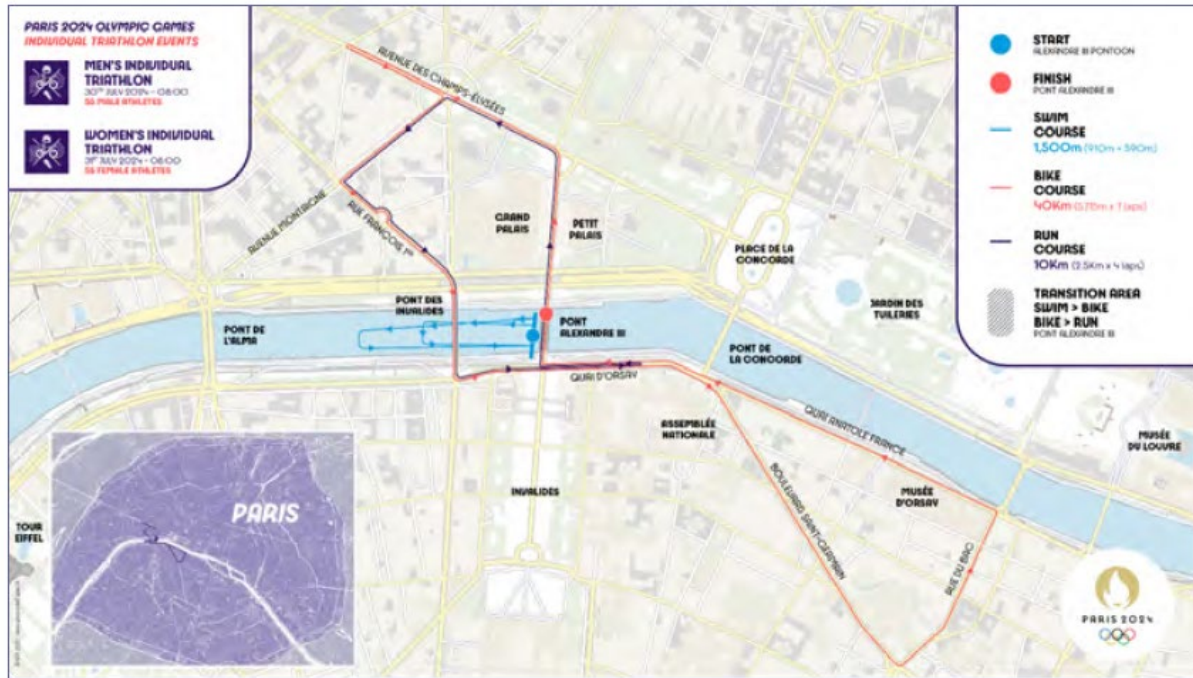
Pont Alexandre III (Alexander III Bridge) and its surrounding areas in central Paris



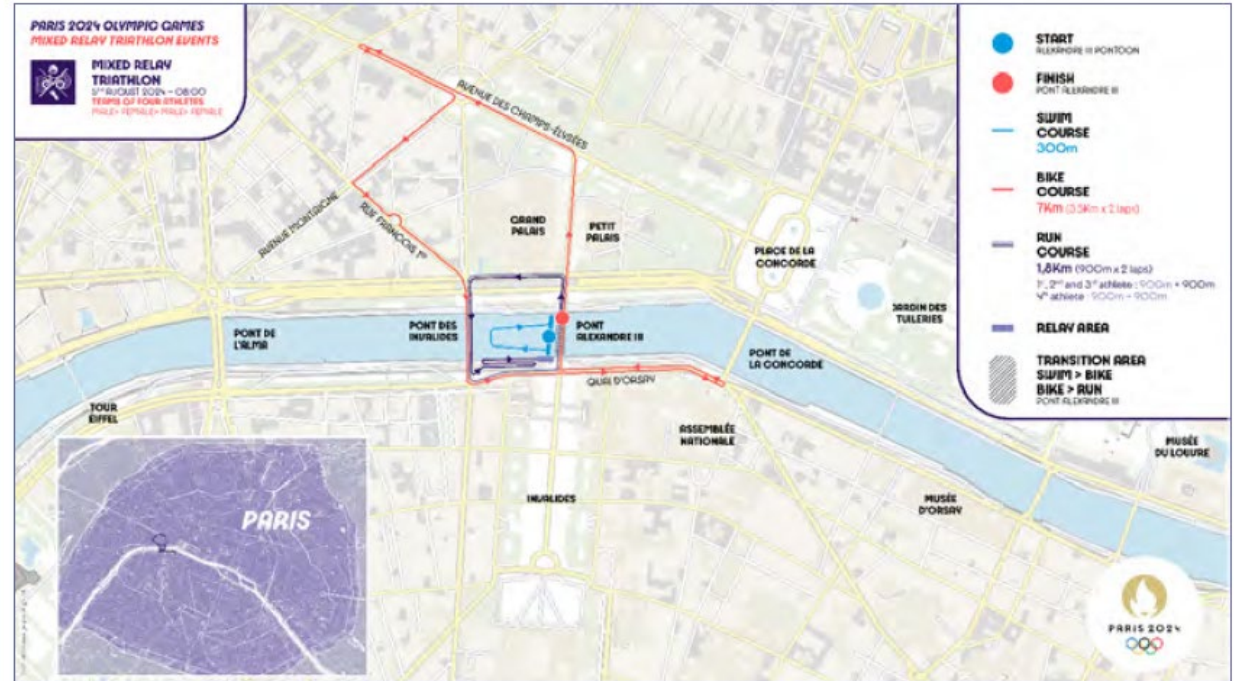
VENUE

Pont Alexandre III (Alexander III Bridge) and its surrounding areas in central Paris

INDIVIDUAL COURSE



MIXED RELAY COURSE



ITOs & NTOs (42名)

	POSITION		POSITION
1	Technical Delegate	22	Chief Run
2	Technical Delegate	23	Assistant Run
3	Technical Delegate	24	Assistant Run
4	Head Referee 1	25	Chief Finish
5	Head Referee 2	26	Chief Start/Relay Zone
6	Medical Delegate	27	Chief Penalty Box
7	Chief Race official	28	Assistant Penalty Box
8	Chief Registration	29	Chief Bike Check/
9	Assistant Registration	30	Chief Aid Station
10	Assistant Registration/ Assistant Transition	31	Assistant Aid station
11	Assistant Registration/ Assistant Lap Auditor	32	Assistant Aid station/ Assistant Relay zone
12	Assistant Registration/ Assistant Transition	33	Chief Drone official
13	Chief Transition	34	Chief Recovery
14	Assistant Transition	35	Chief Technology
15	Chief Swim	36	Chief Vehicular
16	Assistant Swim/ Assistant Bike check	37	Chief Venue Control Centre
17	Assistant Swim	38	Chief Video Review
18	Assistant Swim/ Assistant Finish	39	Chief Lap Auditor
19	Chief Bike	40	Chief Wheel Station 1
20	Assistant Bike	41	Assistant Wheel Station 2
21	Assistant Bike	42	Assistant Wheel Station 3-4

	NAME	LAST	CC	POSITION
1	Thanos	Nikopoulos	GRE	Technical Delegate
2	Laura	Patti	ITA	Technical Delegate
3	Felix	Molina	MEX	Technical Delegate
4	Lyndell	Murray	AUS	Head Referee 1
5	Fritz	Schwarz	AUT	Head Referee 2
6	Sergio	Dr. Migliorini	ITA	Medical Delegate
7	Pascal	Godel	FRA	Chief Race official
8	Maisie	Bancewicz	GBR	Chief Registration
9	Paula	Maia	POR	Assistant Registration
10	Maria Eugenia Micaela	Arauz	ARG	Assistant Registration/ Assistant Transition
11	Marie Josephine	Zafra	PHI	Assistant Registration/ Assistant Lap Auditor
12	Omur	Sentürk	TUR	Assistant Registration/ Assistant Transition
13	Janice	Turner	CAN	Chief Transition
14	Ricardo	Neves	BRA	Assistant Transition
15	Aggeliki	Thoma	GRE	Chief Swim
16	Ivan	Mihajlovski	MKD	Assistant Swim/ Assistant Bike check
17	Julie	QUARRE	FRA	Assistant Swim
18	Sophie	CHABUT	FRA	Assistant Swim/ Assistant Finish
19	Miguel Alejandro	Fernandez	ESP	Chief Bike
20	Alexei	Kalinin	KGZ	Assistant Bike
21	Gregory	LOURS	FRA	Assistant Bike
22	Keith	Iwasaki	CAN	Chief Run
23	Tomoko	Oda	JPN	Assistant Run
24	Christophe	BORRILLONE	FRA	Assistant Run
25	Cynthia	Quilo	MEX	Chief Finish
26	Julien	Vander Plancke	FRA	Chief Start/Relay Zone - Assistant CRO
27	Györgyi	Bodnar	HUN	Chief Penalty Box
28	Uli	Zierl	GER	Assistant Penalty Box
29	Paul	Brandt	USA	Chief Bike Check/ Assistant Transition
30	Philippe	Gerra	FRA	Chief Aid Station
31	Abdenour	Rahmuni	MAR	Assistant Aid station
32	Petr	Muzicek	CZE	Assistant Aid station/ Assistant Relayzone
33	Eva	Blomqvist	SWE	Chief Drone official
34	Catherine	Jennings	ZIM	Chief Recovery
35	Hideo	Watanab	JPN	Chief Technology
36	Thomas	Mandelli	FRA	Chief Vehicular
37	Sandrine	Crosnier	FRA	Chief Venue Control Centre
38	Adele	Cheah	MAS	Chief Video Review
39	Apolline	POAS	FRA	Chief Lap Auditor
40	Tony	Sangster	NZL	Chief Wheel Station 1
41	Rolando	Herrera	CUB	Assistant Wheel Station 2
42	Zhiyang	Ruan	CHN	Assistant Wheel Station 3-4
	Laura	Patti	ITA	Competition Jury - Chair
	Miles	Stewart	AUS	Competition Jury - EB
44	Marie-Claude	Gregoire	CAN	Competition Jury - MC
45	Kiryio	Suzuki	JPN	Competition Jury - TC
	Bernard	Saint	FRA	Competition Jury - NF



全TO数=44名

男:女 = 23:21

※女性率 47.7%

NTO:ITO= 11: 33

※NTO率 25%

TOs by Continents (大陸別)

ヨーロッパ (Europe)

- GRE (ギリシャ)
- ITA (イタリア)
- AUT (オーストリア)
- FRA (フランス)
- GBR (イギリス)
- POR (ポルトガル)
- TUR (トルコ)
- MKD (北マケドニア)
- ESP (スペイン)
- HUN (ハンガリー)
- GER (ドイツ)
- MAR (モロッコ)
- CZE (チェコ)
- SWE (スウェーデン)

アジア (Asia)

- PHI (フィリピン)
- KGZ (キルギス)
- JPN (日本) 3名
- MAS (マレーシア)
- CHN (中国)
- AUS (オーストラリア)
- NZL (ニュージーランド)

北米 (North America)

- CAN (カナダ) 3名
- USA (アメリカ合衆国)
- MEX (メキシコ)

南米 (South America)

- BRA (ブラジル)
- ARG (アルゼンチン)
- CUB (キューバ)

アフリカ (Africa)

- MAR (モロッコ)
- ZIM (ジンバブエ)

※赤は複数TO参加国



AGE?
 BACKGROUP?
 JOB?
 ENGLISH ABILITY?

国、性別、Level 1 or 2 or 3 以外は不明

語学力というよりコミュニケーション能力が求められる

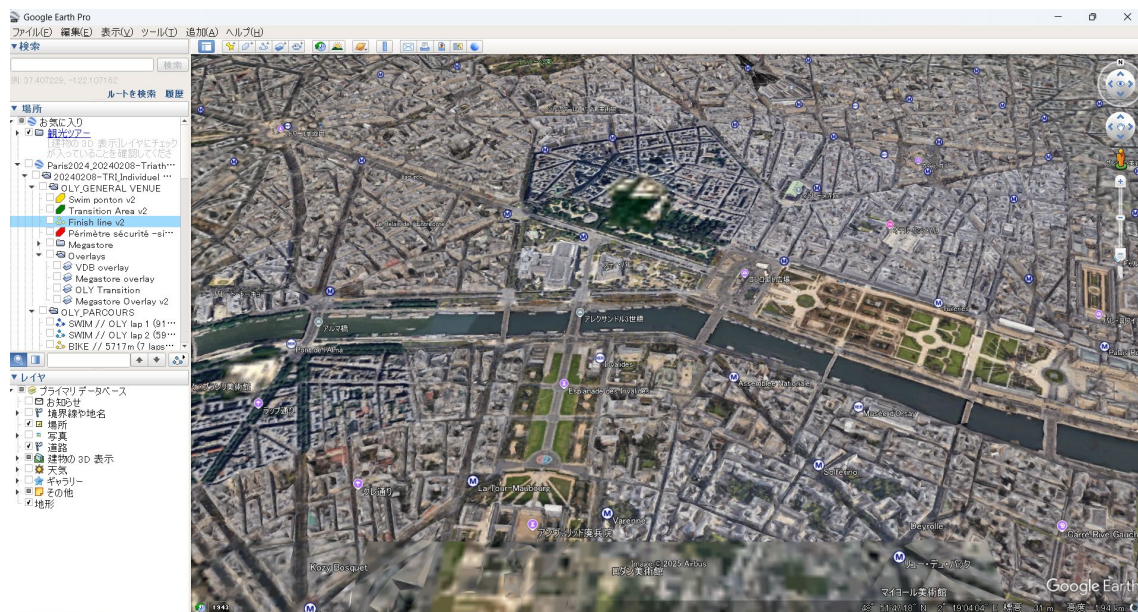
Preparation (渡航前事前準備)

Date	Days Before		
2023-11-24	251	email	Newsletter #1(P9)
2023-12-09	236	Online Meeting#1	General (P44)
2024-03-02	152	email	Newsletter #2 (P13)
2024-05-25	68	email	Newsletter #3 (P10)
2024-06-08	54	Online Meeting#2	Rule50 (P24) Example
2024-07-03	29	Online Meeting#3	General (P110)
2024-07-11	21	email	IOC Social Media Guideline (P4)
2024-07-11	21	email	TO Duties (Run) Submission ※TO Assignmentの内容をOLY用にカスタマイズ 【参考資料-1】
2024-07-17	15	email	TO's Guide
2024-07-18	14	email	Final Schedule
2024-07-19	13	email	TO Assignment
2024-07-25	7	email	Team Leader's Guide Change

Preparation (渡航前事前準備)

Google Earth Proの活用

Googleが提供するバーチャル地球儀システム「Google Earth」のビジネスユーザー向けライセンス。通常版のGoogle Earthに比べて高度な機能が利用でき、建設関係者向けの機能が充実しています。



高解像度の地形データと衛星画像を活用して大会コースを正確に作成でき、距離測定や3Dビューによるリアルな視覚化、カスタマイズしたコース図の作成と共有が可能で、効率的な運営計画に貢献します。

On-site Preparation (現地事前準備)

Date	What	Who
2024-07-28	Run Course Measurement	Run TOs
	Swim Fam=cancelled	
2024-07-29 7:30-7:45	Run Familiarization	Run TOs
2024-07-29	Rule50	Assigned TOs
	Swim Fam=cancelled Pontoon not installed (Operator no show)	
2024-07-30 9:00-	Dress Rehearsal	Assigned TOs
2024-07-31 6:00-	Race Day (Individual) Run Familiarization	Run TOs
2024-08-02	FOB Preparation	FOP Volunteers
2024-08-03	Run Course Measurement	Run TOs
2024-08-04	Run Familiarization Dress Rehearsal	Run TOs Assigned TOs
2024-08-05	Run Familiarization	Run TOs



TRIATHLON

Technical Official's Form



On-site Preparation for Chiefs

各チーフが1日の最後に記入するフォーム

Name

Date

Position

Comments regarding staff

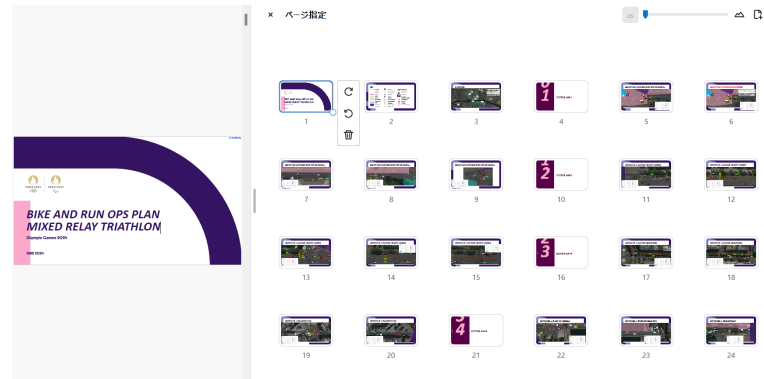
Comments on the volunteers and positioning

Comments on the special operations during the events

Comments regarding athlete information and support

記入事項

- Comments regarding staff
- Comments on volunteers and positioning
- Comments on special operations during the events
- Comments regarding athlete information and support



国内でも大会開催前にチーフから報告があると良いのでは？

Race Day Schedule (大会当日のスケジュール)

MTR	TO Run Sheet MIXED TEAM RELAY	Who
04:45	TO report on site for meeting	ALL
05:00	Radio Check	Chief Race Official
05:30	Final team declaration in Athletes Lounge	TD + HR
05:45	"This is Chief Registration Athletes lounge is open for registration"	Chief Registration
06:00	"This is Chief Swim, Provisional water Temperature is _C and air is _C"	Chief Swim
06:30	"This is Chief Bike, bike course is open for warm up."	Chief Bike
06:30	"This is Chief Run, run course is open for warm up."	Chief Run
06:30	"This is Chief Transition, T2 is open for check in"	Chief Transition
06:45	"This is Chief Swim, swim course open for Warm Up"	Chief Swim
07:00	"This is Chief Race Official, Official Water Temperature is _C and air is _C"	Chief Race Official
07:00	"This is Chief Race Official, Official Time is 7:00; 1 hour until the start of the race"	Chief Race Official
07:15	"This is Chief Registration, All teams except # now registered"	Chief Registration
07:15	"This is Chief Bike / Chief Run, bike and run courses are closed for warm up"	Chief Bike & Run
07:30	"This is Chief Swim, swim course closed for Warm Up"	Chief Swim
07:30	"This is Chief Transition, T2 closed for check in"	Chief Transition T2
07:45	Swim & start officials in position, Transition personnel in position, Cycle, Run in position, Lap auditors in position, Wheel stops ready, Penalty Box ready, Aid Station personnel in position, Relay Zone ready.	TD / VCC
07:45	Aid Station personnel in position, Relay Zone ready.	TD call to All
07:45	Athletes called for introductions	TD
07:49	One minute to race start. Radio silence	TD
08:00	Mixed Team Relay: Race Start	TD
	"This is the Head Referee, we have a [Clean Start / False Start]"	Referee
	"This is Chief Swim, Lead athlete Leg X completed swim course"	Chief Swim
	"This is Chief Transition, Lead athlete Leg X in Transition"	Chief Transition
	"This is Chief Transition, Lead athlete Leg X on bike course"	Chief Transition
	"This is Chief Swim, Last team Leg X completed swim course"	Chief Swim
	"This is Chief Transition T2, Last team on bike course is number X"	Chief Transition
	"Penalty - Team number _# Letter_ "	Head Referee
	"Penalty Team Number _# Letter_ Posted at Penalty Box"	Penalty Box
	"Penalty Team Number _# Letter_ Posted at Relay Zone"	Chief Relay Zone
	This is Chief Lap Auditor - Lead cyclist Finishing Lap 1 - 1 laps to go"	Chief Lap Auditor
	This is Chief Bike - Team Number X has been lapped and is out of the race	Chief Bike
	"First team in Transition - Team X"	Chief Transition
	"First team is on run course - Team X"	Chief Lap Auditor
	"Penalty - Team number _# Letter_ "	Head Referee
	"Penalty Team Number _# Letter_ Posted at Penalty Box"	Penalty Box
	"Penalty Team Number _# Letter_ Posted at Relay Zone"	Chief Relay Zone
	This is Chief Bike we have a First Runner / Last Biker scenario. Team number _# has been lapped out.	Chief Bike/Chief Run
	This is Chief Transition, Last team number # is now on the run course.	Chief Transition
	This is Chief Lap Auditor Lead Team Runner is Finishing Lap 1, 1 laps to go	Lap Auditor
	This is Chief Lap Auditor Lead Team Runner is on the way to the Relay Zone	Lap Auditor
	"This is Chief Penalty Box, Team Runner _# has served penalty"	Penalty Box
	This is Chief Relay Zone, Team _# has been removed from board.	Chief Relay Zone
	Lead TEAM is at Relay Zone-Leg B/C/D starts	
09:10	This is Chief Finish - Officials in position, finish tape ready	Chief Finish
	This is Chief Penalty box - Lead Runner is at the Penalty Box on the way to Finish line	Penalty box
09:18	First athlete finishes	Penalty box
09:20	"This is Chief Finish, Lead athlete has completed the race"	Chief Finish
09:25	"This is Chief Finish, Last athlete has completed the race"	Chief Finish
	Results signed off	Referee
09:30	MTR Media Ceremony	TD
	This is Chief Transition, T2 is ready for check out"	Transition
11:00	Officials Debrief	ALL

Men	Women	TO Run Sheet ELITE	Who
05:00	05:00	TO report on site for meeting	ALL
05:30		Radio Check	Chief Official
06:00	06:00	"This is Chief Swim, Provisional Water Temperature is _C and air is _C"	Chief Swim
05:45	05:45	"This is Chief Registration Athletes lounge is now open for check in"	Chief Registration
06:30	06:30	"This is Chief Transition, T2 opens for bike check in"	Chief Transition T2
06:30	06:30	"This is Chief Bike, Bike Course open for Warm Up"	Chief Bike
06:30	06:30	"This is Chief Run, Run Course open for Warm Up"	Chief Run
06:45	06:45	"This is Chief Swim, Swim Course open for Warm Up"	Chief Swim
07:00	07:00	"This is Chief Race Official, Official Time is xxxxx; 1 hour for the start of the race"	Chief Race Official
07:00	07:00	"This is Chief Swim, Official Water Temperature is / _C"	Chief Swim
07:15	07:15	"This is Chief Registration, All athletes except # now registered"	Chief Registration
07:15	07:15	"This is Chief Bike, Bike Course closed for Warm Up"	Chief Bike
07:15	07:15	"This is Chief Run, Run Course closed for Warm Up"	Chief Run
07:30	07:30	"This is Chief Transition, T2 closed for bike check in"	Chief Transition T2
07:30	07:30	"This is Chief Swim, Sw in Course closed for Warm Up"	Chief Swim
07:30	07:30	Course lockdown confirmed Bike & Run	TD
07:45	07:45	Swim & start officials in position, Transition personnel in position, Cycle, Run in position, Lap auditors in position, Wheel stop personnel, Penalty Box personnel in position, Aid Station personnel in position	TD call to All
07:45	07:45	Athletes called for introductions	TD
07:49	07:49	Athletes on the start position, 1 minute to go until start, radio silence	TD
08:00	08:00	Race Start	TD
		"This is the Head Referee, we have a [Clean Start / False Start]"	Referee
		"This is Chief Swim, Lead athlete completed first lap on the swim"	Chief Swim
		Transition Officials in position / Mount Line ready	Chief Transition T2
		"This is Chief Swim, Lead athlete completed swim course"	Chief Swim
		"This is Chief Transition, Lead athlete in T2"	Chief Transition T2
		"This is Chief Transition, Lead athlete on bike course"	Chief Transition T2
		"This is Chief Swim, Last athlete completed swim course"	Chief Swim
		"This is Chief Transition, Last athlete on bike course is number X"	Chief Transition T2
		"Penalty - Athlete number _# , Penalty _Letter_ "	Head Referee
		"Penalty - Athlete _# and Letter_ posted at Penalty Box"	Chief Penalty
		This is Chief Lap Auditor - Lead Athlete Finishing Lap 1 - 6 laps to go"	Chief Lap Auditor
		This is Chief Lap Auditor -repeat for lap 2-3-4-5-6	Chief Lap Auditor
		This is Chief Transition - transition is ready for T2, dismount officials in position	Chief Transition T2
		This is Chief Bike - Athlete number X has been lapped and is out of the race	Chief Bike
		First athlete in Transition2	Chief Transition T2
		First athlete on run course	Chief Lap Auditor
		"Penalty - Athlete number _# , Penalty _Letter_ "	Head Referee
		"Penalty - Athlete _# and Letter_ posted at Penalty Box"	Chief Penalty
		This is Chief Transition, Last cyclist number # is now on the run course	Chief Transition T2
		This is Chief Lap Auditor Lead Athlete is Finishing Lap 1, 3 laps to go	Lap Auditor
		This is Chief Lap Auditor repeat for lap 2-3-	Lap Auditor
		This is Chief Finish - Officials in position, finish tape ready	Chief Finish
		"This is Chief Penalty - Athlete's number _# has served penalty"	Chief Penalty
		"This is Chief Finish, Last athlete has completed the race"	Chief Finish
		This is Chief Finish, Last athlete has completed the race	Chief Finish
		Results signed off	Referee
10:00	10:15	Results signed off	Referee
		Results signed off	Referee
11:00	11:00	This is Chief Transition, T2 ready for check out"	Transition
		TO Debrief	Chief Positions

■TO Tasks

7月31日
スタートTO
ランTO (最終ランナー)

8月5日
スタートTO
ランTO (バイク&ランコース
の変換)

7月30日男子競技が中止となったため、7月31日女子競技は予定通り実施され、10時30分から男子競技が追加で実施された
※ランシート (スケジュール) は前日に配布

課題とその対応（担当：ラン）

【カリブレーション:正確な距離計測のため】

より正確な距離計測を行うために、2段階のカリブレーションを実施

◆ 第1カリブレーション

50メートルロールメジャーを使用してコロコロの誤差を計測

◆ 第2カリブレーション

5メートルメタルメジャーを使用して50メートルロールメジャーの誤差を計測

【コース全体を正確に把握するためにGoogle Earth Proを採用】



※参考資料-4

【映像の映り込みの防止】

コース監視時に固定カメラと移動カメラの位置を常に確認



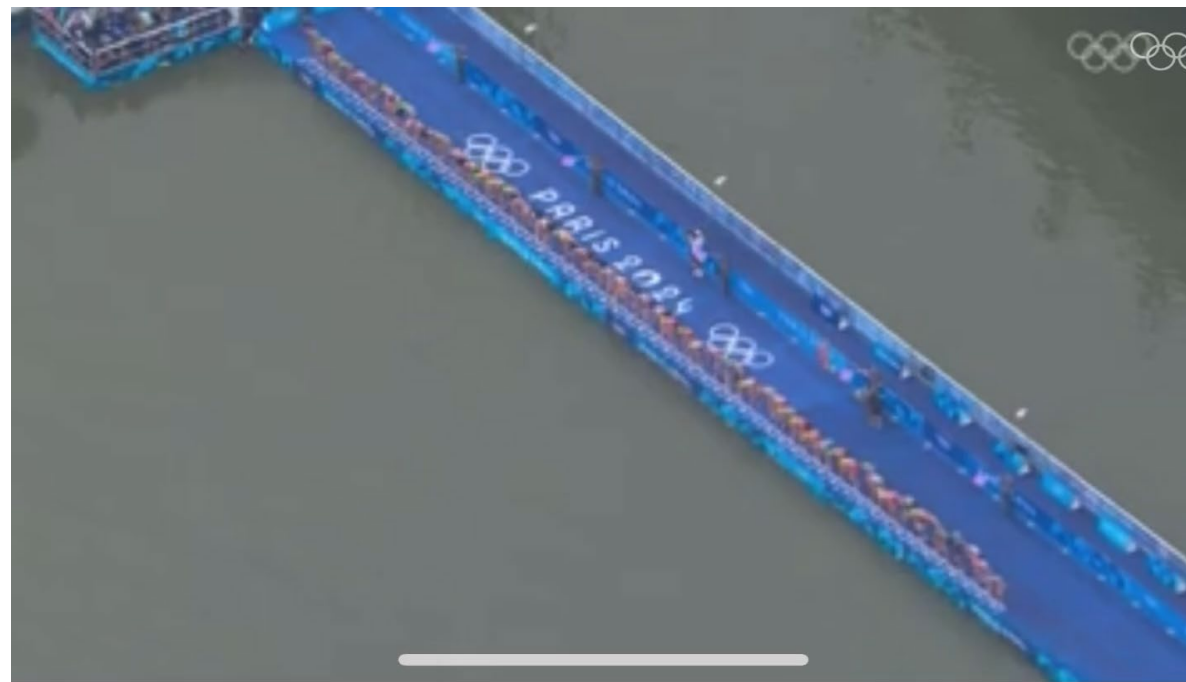
Things to Improve (改善点)

事象例	原因 	対策 
女子スタートの失敗	選手が電子スタート音を同時に聞くことができなかった リハーサル不足、複数社の連携不足、スピーカ配置ミス、観客席からの騒音	リハーサルの徹底、スタート前に観客に静寂を求めるアナウンスをする
ミックスリレースタートの失敗	HRがスタートを連続で2回押したため、フォルススタートの警告音発動したが、選手を止めることはできなかった	電子ホーンの取扱方法になれる フォルススタートの際はジェットを配備して選手を静止させる
最終ランナーの確認	トランジッションチーフからの最終バイク (=最終ランナー) のコールが事後にあったため、男女共に1周回目に追従することができなかった	MIX RELAYではトランジッションチーフの他にTDがコース上の状況を随時無線で報告
水流対策	https://www.instagram.com/p/C-NDn0PtGyo/ 最大で1.2m/秒の水流があった	スイムコースをできるだけ端を通るように変更し、水流が遅い場所を選択した

What do you hear? !

【女子スタート】

- スタート前の会場内の音は？
- 「On your mark」の後に何が聞こえるか？



What do you hear? !

【ミックスリレースタート】

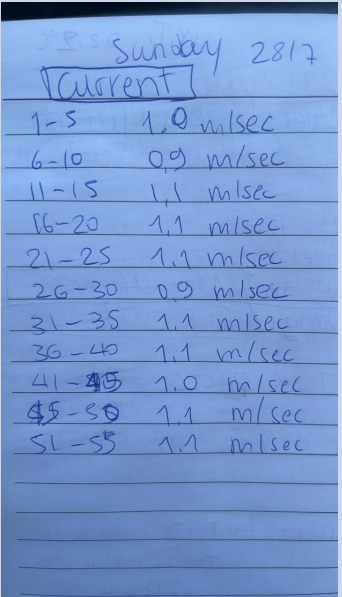
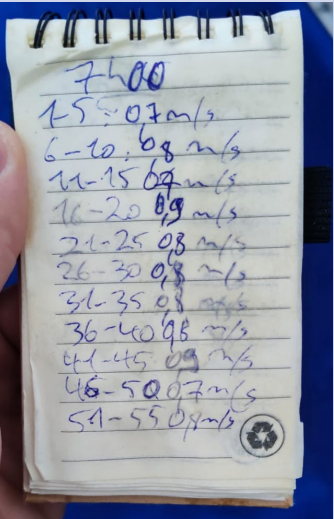
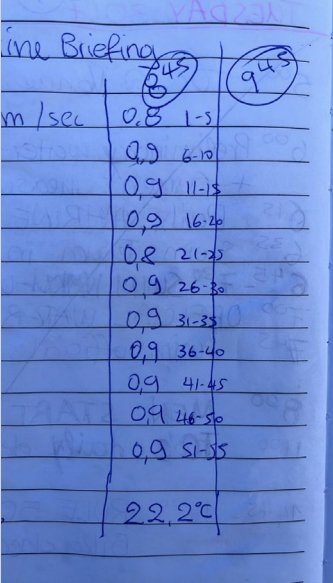
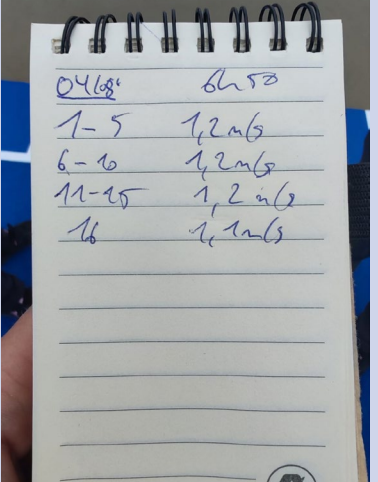
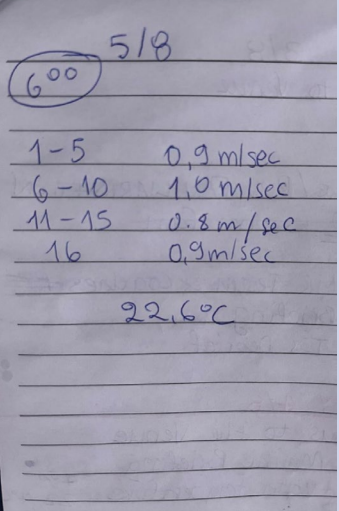

- スタート前の会場内の音は？
- 「On your mark」の後に何が聞こえるか？



Things to Consider (考慮すべき点)

【予想以上に速かった水流】

<https://www.instagram.com/p/C-NDn0PtGyo/>

07-28 7:00a.m.	07-31 7:00a.m.	07-31 8:45a.m.	08-04 6:45a.m.	08-05 6:00a.m.	
					

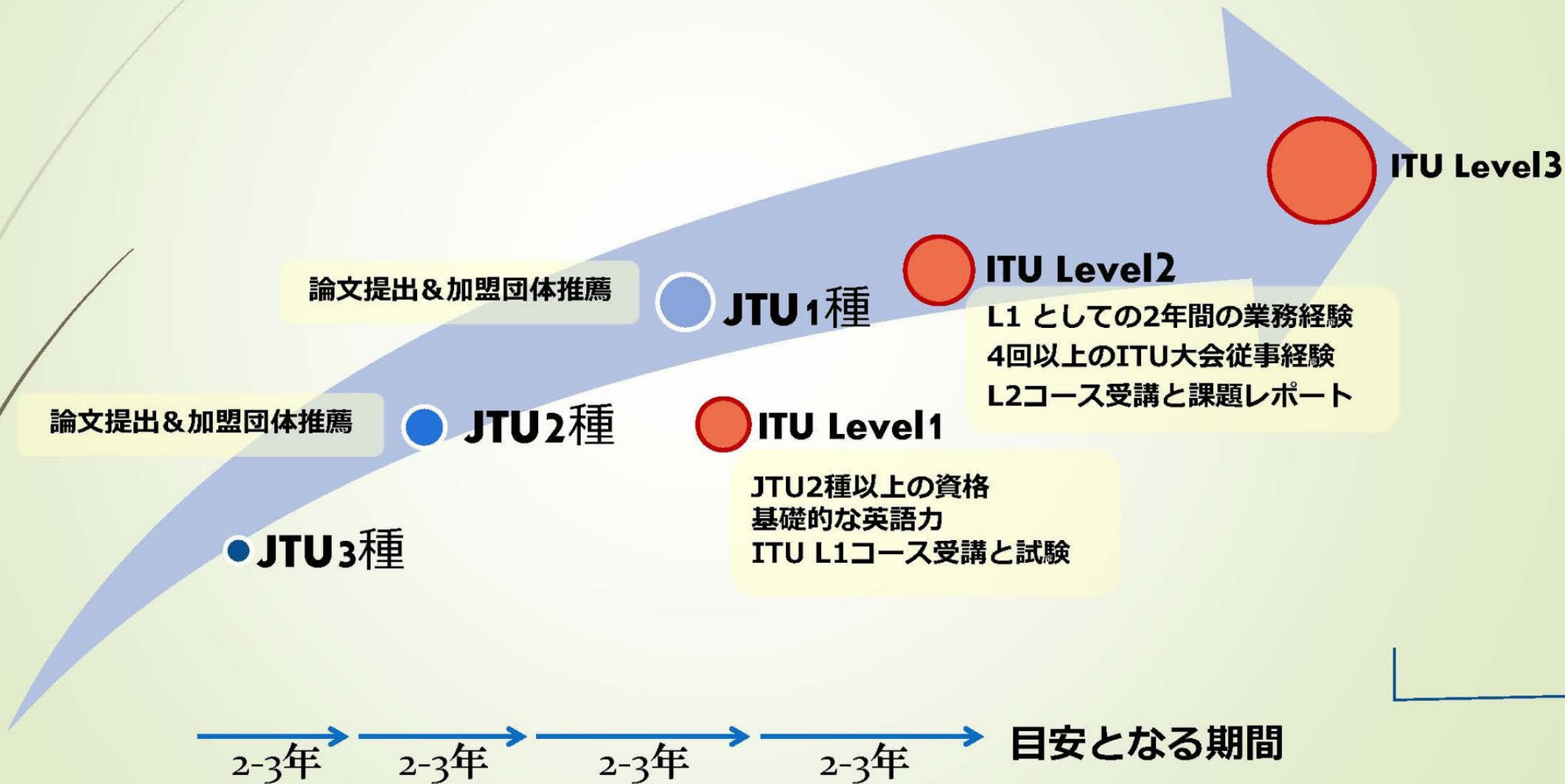
まとめ

TOの性別及び地域の分散化	ジェンダー、年齢、地域等に偏りが出ないように人選を行う
TOと審判員の違いの確認	テクニカルオフィシャル≠審判員という概念を浸透させる 国際大会で選手にペナルティを課すのはHR、TOはコース安全確保とHRへの報告義務がある ※【参考資料-2】各競技における審判員等の分類
Google Earth Proの活用	コースを様々な角度から検証することができ、事前準備に採用すべきだと感じた
スタート方法の見直し	女子とミックスリレースタートの失敗からゴルフ、水泳や陸上のスタート方式 (観客に静寂を求める方式) を採用する
水流対策	スイムコースをできるだけ端を通るように変更し、水流が遅い場所を選択した ※川の端では岸や底との摩擦や乱流の影響で流れのエネルギーが分散されるため、中心よりも流速が遅くなります。
無線連絡の精度向上	担当箇所のみを見るチーフTOに加えて、全体を俯瞰できる（テレビ、ドローン画像をモニターできる）TOによる選手の位置情報等の共有を行う
レポート提出の在り方	チーフTOがパート毎のレポートを集約し、TDに提出する ※参考資料 (Daily Activity Report for Chief TO)

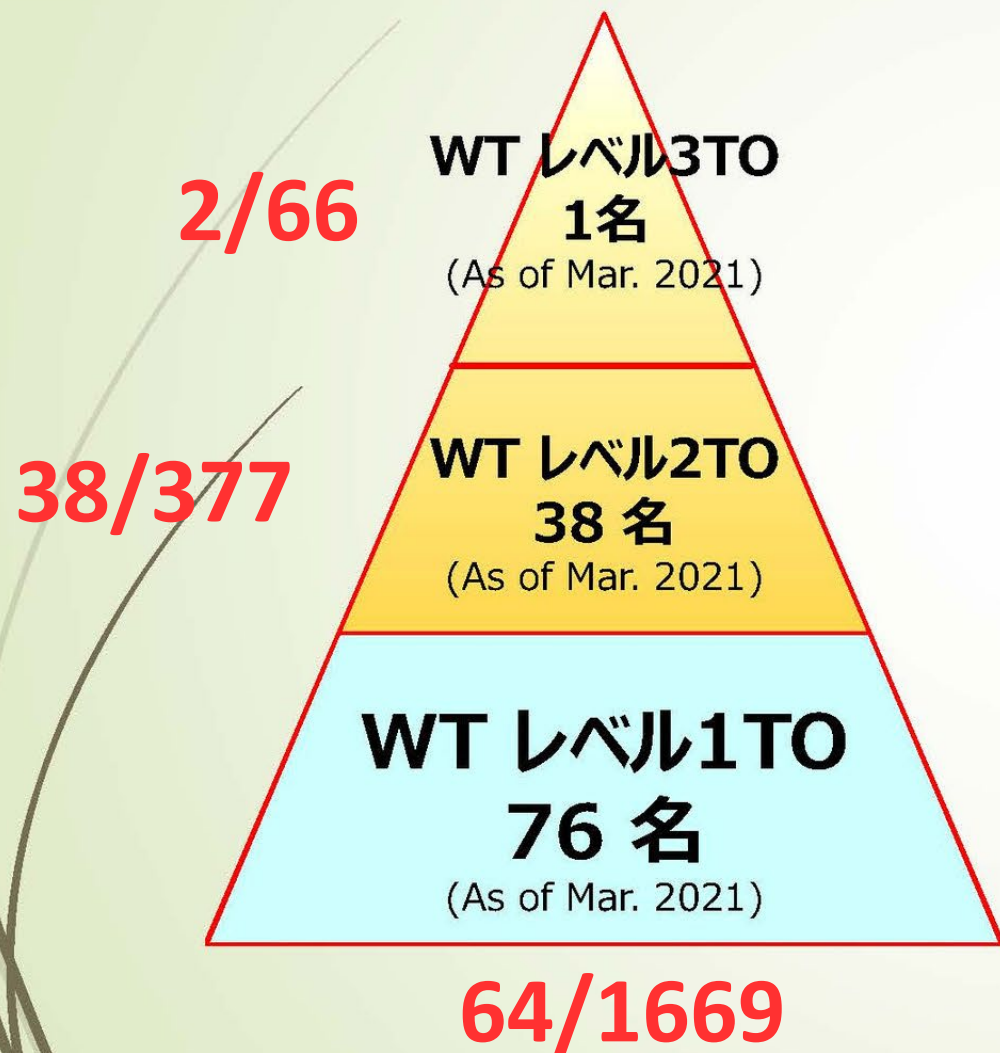
テクニカルオフィシャル (TO) として世界で成長するためのヒント



審判員(Technical Official)のキャリアラダー



JTUの取組：国際審判員（ITO）育成



<要件>

- 審判技量、知識、経験
- 英語力、コミュニケーション力

育成方針:

- SFTO（自費TO）派遣プログラムによる海外へのTO派遣
- L2テクニカルセミナーへのTO派遣
- ITUイベントへのTD及びATD派遣

育成方針:

- 認定TO教育プログラム（JTUによるL1認定）
- L1テクニカルコースの国内開催
- 国内ITUイベントでのTO業務機会の提供

※2022年データ

求められる資質

COMPETITION RULES (競技規則)& EVENT ORGANIZER'S MANUAL (EOM)

第1種

改定

LEVEL3

第2種

応用

LEVEL2

第3種

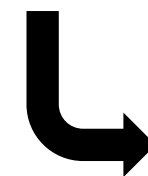
理解

LEVEL1

- コミュニケーション力
- 競技規則 & EOMの知識
- 順応性
- 体力
- 時間
- 協調性
- ポジティブ



年齢
語学力
経歴
仕事



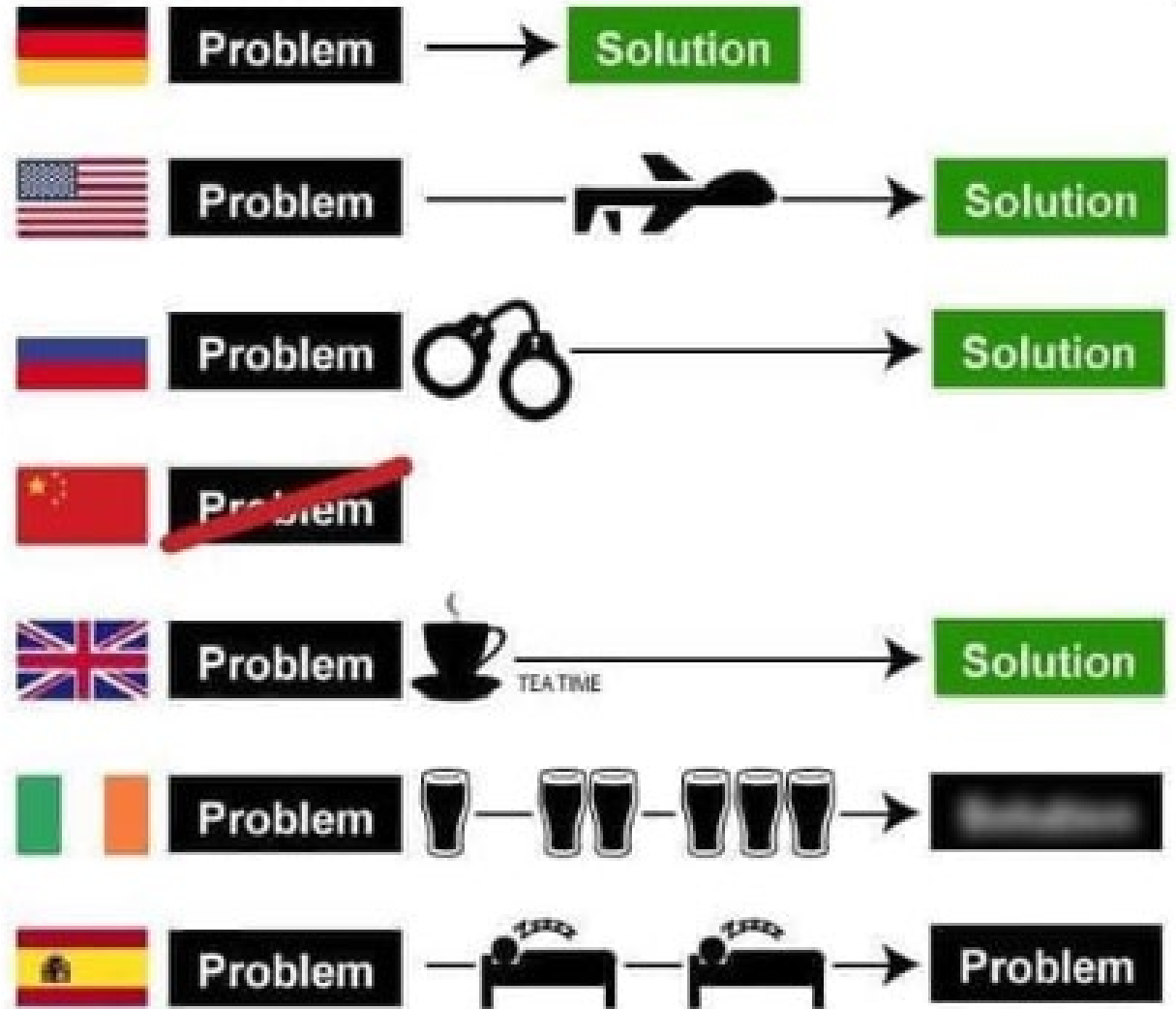
あまり関係ない

世界各地の人々とチームになる事とは？！

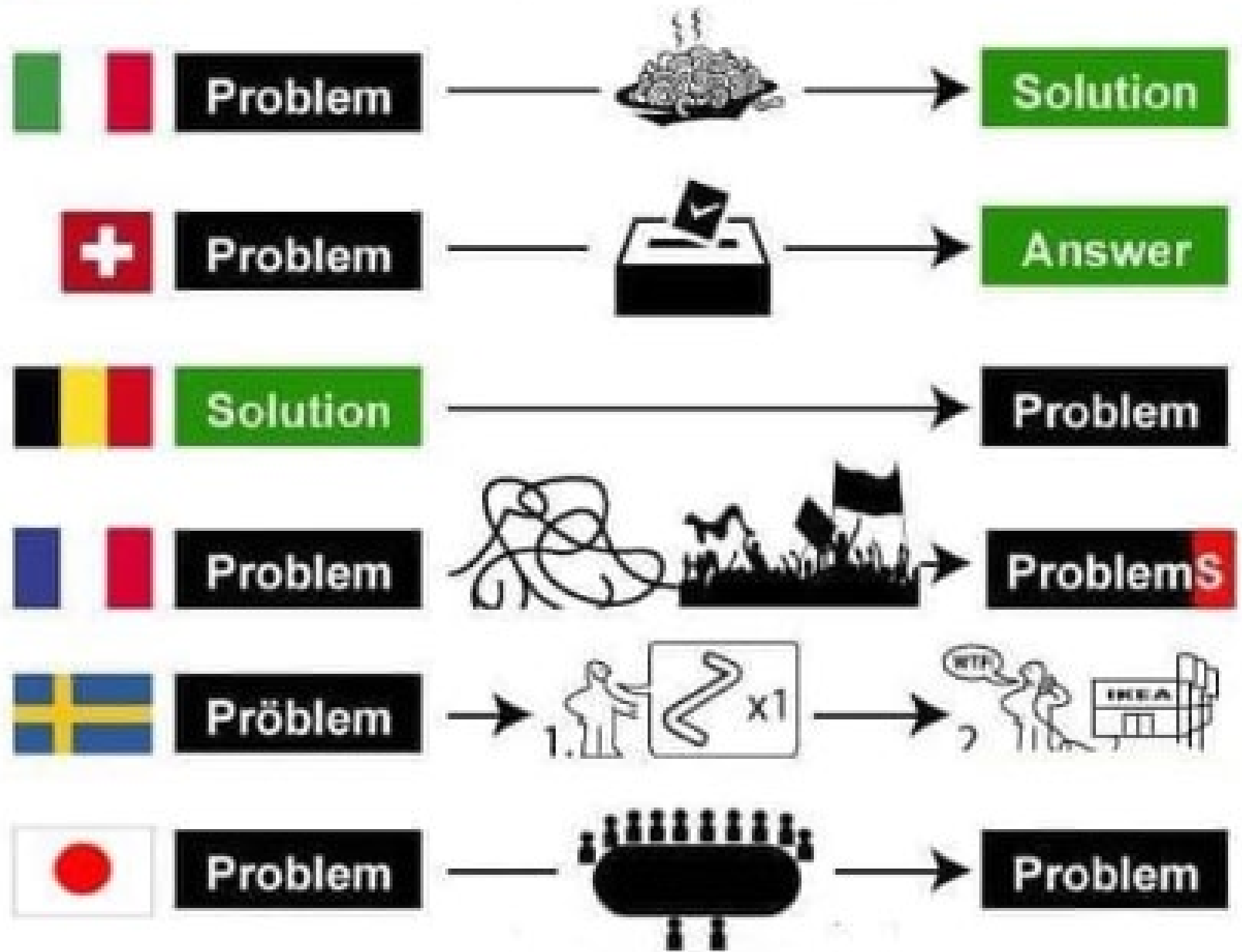
それは
「多様性! Diversity!」
を受け入れるという事

INTERNATIONAL GUIDELINES FOR PROBLEM SOLVING

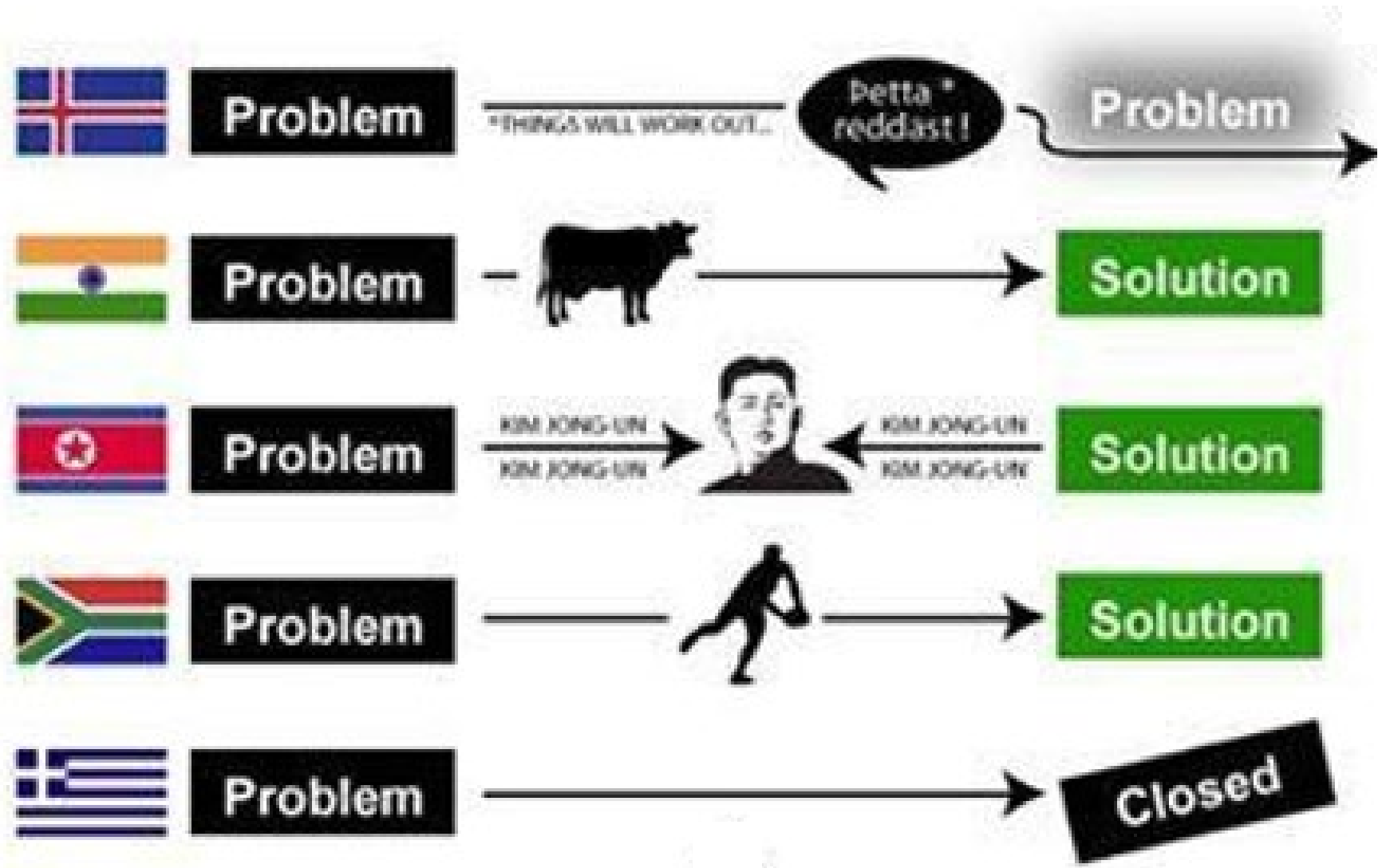
3.0
UPDATED
by popular request



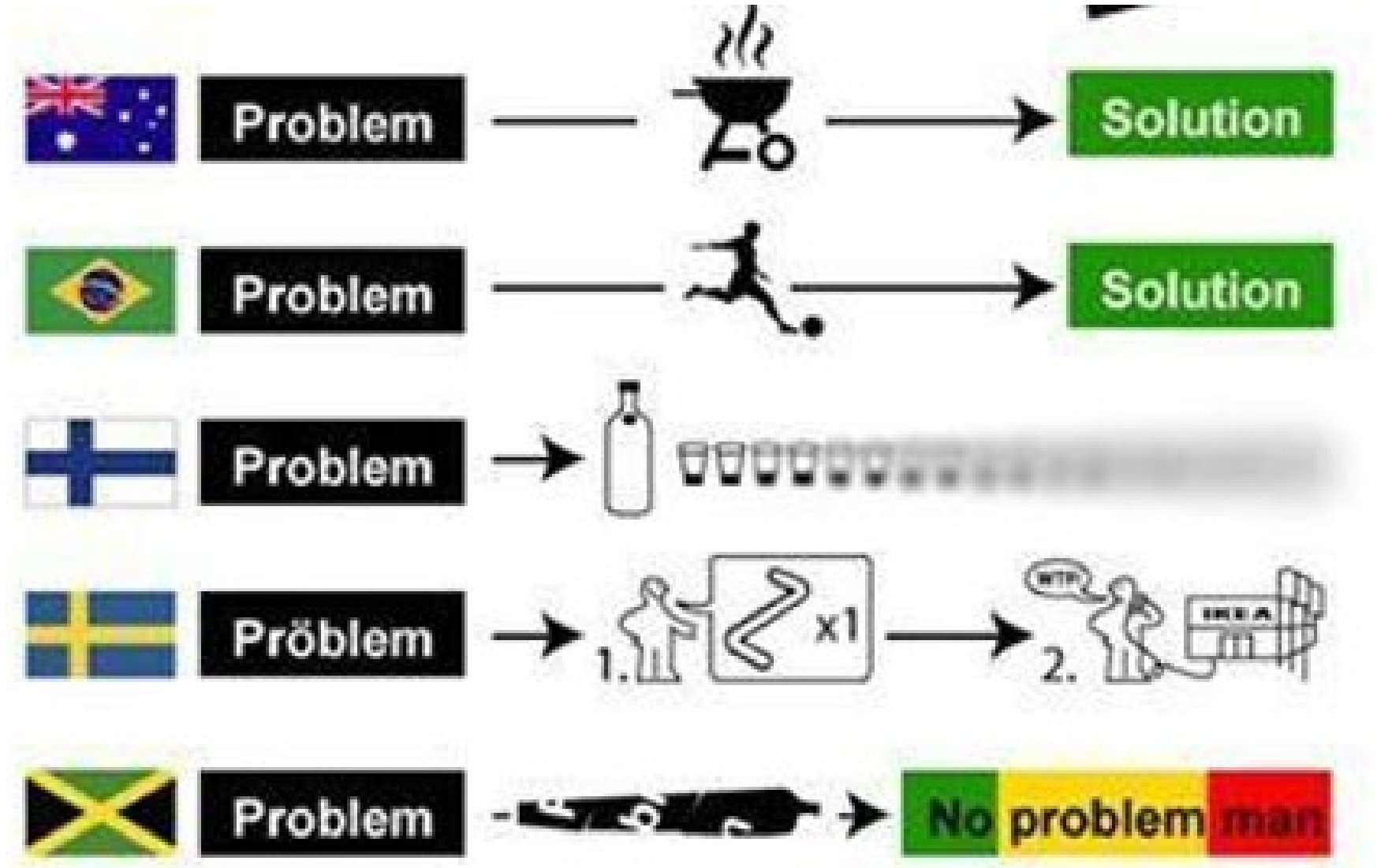
多様性!
Diversity!



多様性! Diversity!



多様性!
Diversity!



多様性の中で求められる資質

1
Cooperative

協力的

2
Adaptive

適応性

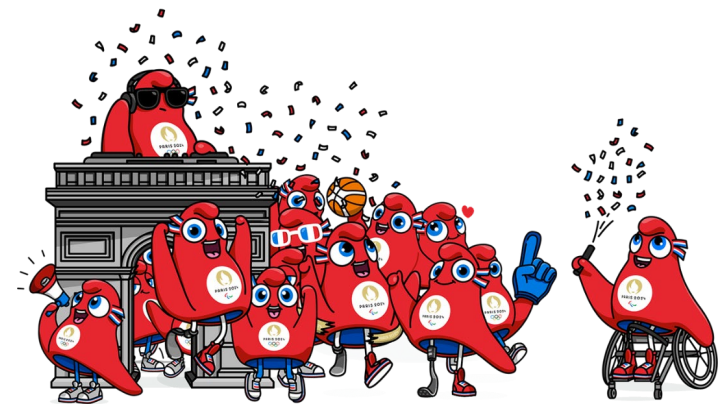
3
Proactive

積極的

4
Communicative

対話力







THANK YOU!

【参考資料-1】 RUN TO Assignment

TOタスクをオリンピック用に修正し、チーフからTDに提出し承認を得た

11. Chief Run

Assistant Run Officials (2)

Pre-Event:

- Liaise with LOC Run Course Coordinator – smile
- Liaise with bike TOs to coordinate the green flag to follow the last runner on the last lap of the run
- Be familiar with all Run Courses used for the Event
- Know how they will transition to Elite during the event
- Obtain Maps (Grid)
- Verify Course Measurement
 - Olympics - Coaches check (access to the run course for course measurement is only during the familiarization)
 - Break course into sections for easier measuring (refer to World Triathlon Run Course Measurement Manual)
- Liaise with Run Course Team
 - Confirm times for Road Closures/Opening
 - Confirm Aid Station locations; recommend adjustments if necessary
 - Confirm with Chief Bike if First Runner/Last Biker scenario exists and what plans have been made by the LOC/TD
 - Review with TD the event protocol for Elite & Mixed Relay course (Lead Runner/Last Runner)
 - Olympics – No Lead Runner TO
 - Sweep the course about 5 minutes before first athlete enters (in event of duathlon)
 - Last Runner TO only needs to maintain visual contact with last athlete when appropriate

- Run Course
 - Ensure course is swept
 - Check Run Course surface
 - Remove/Mark/Make Safe any Hazards (i.e. cobbles on the Champs Elysees)
 - Verify Course Measurement and record exact distance (course distance for Athletes' Briefing provided by AIMS certified course measurer); this can only be done during the familiarizations
 - Confirm the locations of the 1 km to Transition and 1 km from Transition signs
- Inform Assistant Officials of their duties
 - Be Camera Aware
 - Be familiar with the RSM (emergency) plans and the medical evacuation plans

Event:

- Ensure Run Course is ready for the first race
 - Work with Run Team on course readiness
 - Re-confirm course is safe and ready
 - Confirm correct placement of turn markers
- Inform TO Team that the Run course is Race ready
- Confirm all Traffic is controlled and Road closures are effective during the race
- Ensure that Athletes who retire from the Run course are escorted or can safely make it back to nearest Aid Station, Wheel Station or Penalty Box – no transit back to venue until after the race
 - Inform Chief Technology/HR of Athlete number when retired (DNF) and try and give reason for DNF (i.e. Medical, bad day, etc.)
 - Remove Timing Chip
 - Do not cross Timing Points with chip; deposit at nearest Aid Station, Wheel Station or Penalty Box

- Monitor movements on the Run course
- Monitor Run behaviour and report to HR any concerns
- Be aware of Camera/Photo areas on course
- Ensure the TO with the last athlete is to the side of the road and away from any Camera shots
- In sections where the TO has visual contact with the last athlete (e.g. dog leg, out-and-back run sections) they don't need to ride behind the last athlete. They can be stationed in a key location and monitor the athlete's movement from there and join the athlete again.
- Inform the TO Team when the first Athlete is approaching the finish (200 m – 400 m)
- Inform the TO Team when the Last Athlete is off the Run Course

Post Event:

- Debrief with Run Team/Make corrections as needed
- Return equipment as needed

Essential Equipment: Measurement Wheel, Laser, Notepad / Calculator, Course Maps, Good shoes, Bicycles (3), Duct tape, Sharpies, GoPros?

【参考資料-2】 各競技における審判員等の分類

1. 陸上競技 (Athletics)

- **Judge:** 競技審判員
- **Referee:** 主審 (競技全体のルール適用と紛争解決)
- **Technical Official:** 技術役員 (タイムキーパー、フィールド審判員など)

2. 水泳 (Swimming)

- **Judge:** 審判員 (技術審判員、ゴールジャッジなど)
- **Referee:** 主審 (競技全体の進行管理とルール適用)
- **Starter:** スターター (スタート合図を出す役員)

3. 体操 (Gymnastics)

- **Judge:** 審判員 (技術審判員、得点審判員など)
- **Referee:** 主審 (競技全体の監督、抗議処理)
- **Technical Delegate:** 技術代表 (競技の運営監督)

4. サッカー (Football)

- **Referee:** 主審 (試合全体のルール適用)
- **Assistant Referee:** 副審 (ラインズマン、サイドラインの判定)
- **Fourth Official:** 第4審 (交代、ベンチの管理)

5. バスケットボール (Basketball)

- **Referee:** 主審 (試合全体のルール適用)
- **Umpire:** 副審 (主審を補佐する審判)
- **Technical Commissioner:** 技術委員 (競技運営全般の監督)

【参考資料-2】 各競技における審判員等の分類

6. テニス (Tennis)

- **Chair Umpire:** 主審 (試合進行とルール適用)
- **Line Umpire:** 線審 (ライン判定)
- **Referee:** 主審 (大会全体の運営と紛争解決)

7. ボクシング (Boxing)

- **Referee:** 主審 (リング内の試合運営とルール適用)
- **Judge:** 判定員 (試合結果のスコアリング)
- **Technical Delegate:** 技術代表 (大会の運営監督)

8. 柔道 (Judo)

- **Referee:** 主審 (試合の進行とルール適用)
- **Judge:** 副審 (技術判定の補佐)
- **Technical Official:** 技術役員 (大会運営全般の補佐)

9. フィギュアスケート (Figure Skating)

- **Referee:** 主審 (競技全体の監督)
- **Judge:** 採点審判員 (技術点、構成点を採点)
- **Technical Controller:** 技術管理者 (技術要素の確認と判定)

10. ラグビー (Rugby)

- **Referee:** 主審 (試合全体のルール適用)
- **Assistant Referee:** 副審 (タッチジャッジ、ライン判定)
- **TMO (Television Match Official):** ビデオ審判 (リプレイ判定)

【参考資料-2】 各競技における審判員等の分類

11. トライアスロン (Triathlon)

- **Technical Official:** テクニカルオフィシャル
- **Head Referee:** 審判長
- **Jury**

• 12. フェンシング (Fencing)

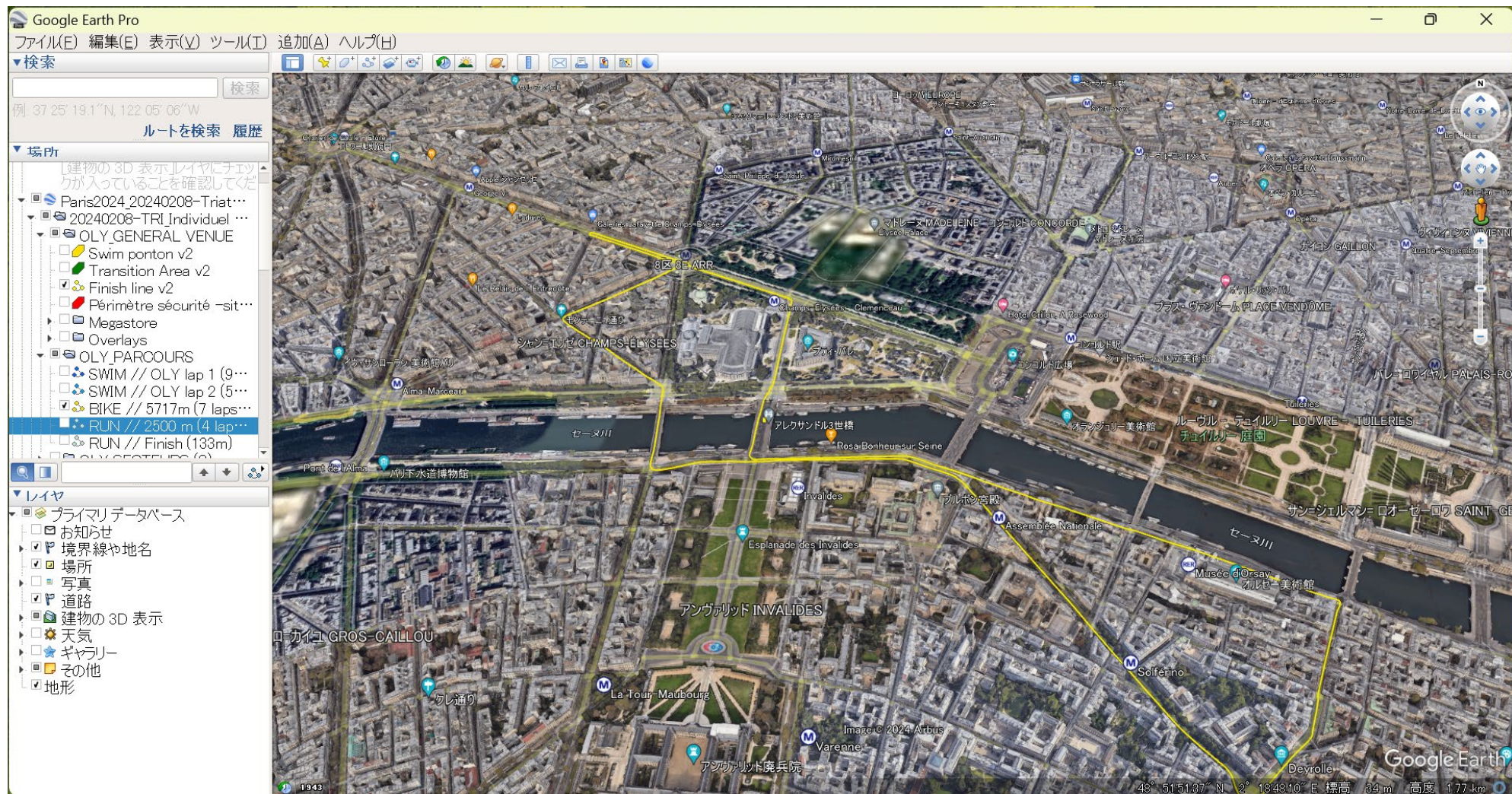
- **Referee:** 主審 (試合の進行とルール適用)
- **Judge:** 判定員 (攻撃、防御の判定)
- **Technical Director:** 技術監督 (競技運営全般の監督)

13. ウェイトリフティング (Weightlifting)

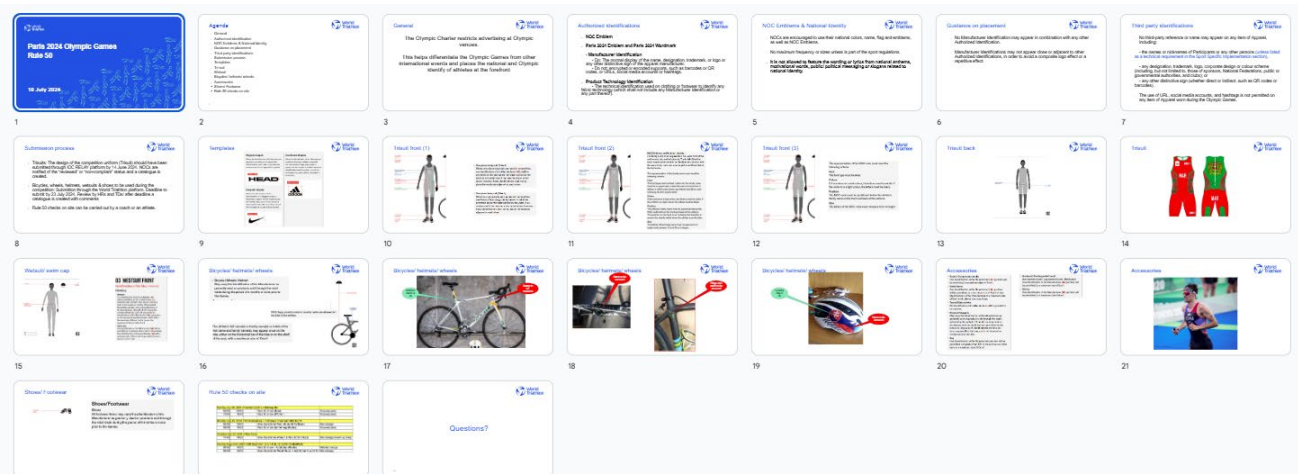
- **Referee:** 主審 (試技の進行とルール適用)
- **Judge:** 判定員 (試技の成功または失敗の判定)
- **Technical Controller:** 技術管理者 (試技の技術要件の監督)

文献「審判はつらいよ」小学館新書2024.5発売

【参考資料-3】 Google Earth Proの活用



【参考資料- 5】 RULE50



	Brand	Model	Comments
Bike	Cervelo	S5	Frame approved for Rule 50 with the picture at the join of the top tube and seat tube covered or removed.
Wheels	ProFidesign Gnr		Approved.
Helmet	KASK	Mojito3	Approved.
Wetsuit	Zoggs	Hypex Ultra	Id manufacturer to be checked on site.
Shoes	Shimano	SH-T1901	photos shown bike shoes. Please check run shoes on site
Spare Bike			
Spare Shoe			

Bike



Wheels



Helmet



Wetsuit



Spares