HUAWEI ICT COMPETITION 2023-2024

8th Huawei ICT Competition (2023–2024)



I. C. The Future

Huawei ICT Competitions – Connection Glory Future



Huawei ICT Competitions are open to worldwide Huawei ICT Academy students and those who are currently enrolled in higher educational institutions and are interested in joining. Under the theme of "Connection, Glory, and Future", Huawei ICT Competitions are intended to promote the thriving ICT talent ecosystem through collaboration with governments, higher education institutions, training institutions, and industry companies.

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Huawei ICT Competitions: International Platform for Talent to Compete and Exchange Ideas



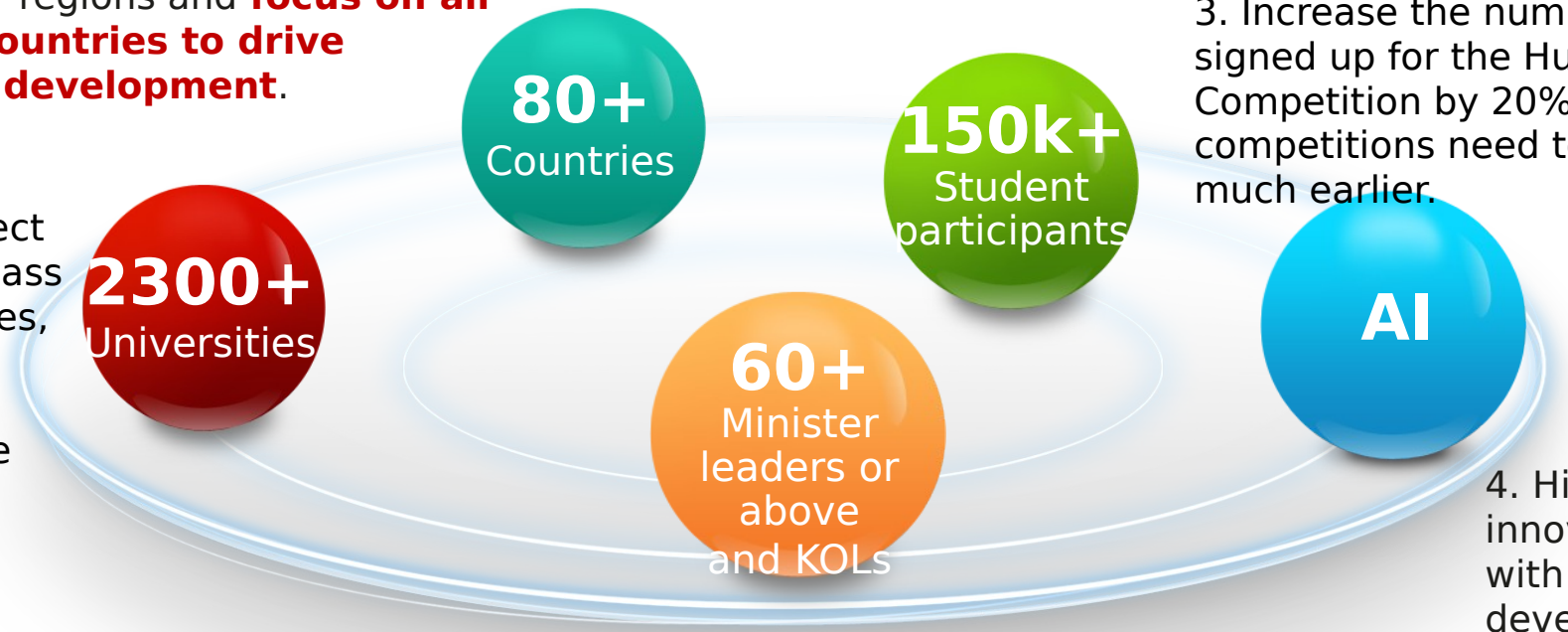
	1st	2nd	3rd	4th	5th All online	6th All online	7th
Scale	**2015–2016** **7,550** students **499** colleges and universities **30** Chinese **teams** to the final	**2016–2017** **15,000+** students **658** colleges and universities **7** countries/regions **33 teams** to the global final	**2017–2018** **40,000+** students **800+** colleges and universities **32** countries and regions **23 teams** to the global final	**2018–2019** **100,000+** students **1600+** colleges and universities **61** countries and regions **49 teams** to the global final	**2019–2020** **150,000+** students **2000+** colleges and universities **82** countries and regions **109 teams** to the global final	**2021–2022** **150,000+** students **2000+** colleges and universities **85** countries and regions **130 teams** to the global final	**2022–2023** **120,000+** students **2000+** colleges and universities **74** countries and regions **146 teams** to the global final
Changes	Commencement of the Huawei ICT Competition	Extended to regions outside China	Added the Practice Competition – Cloud Track	Added the Innovation Competition	The China Association of Higher Education (CAHE) has officially announced the Huawei ICT Competition as a nationwide competition for college and university students.	Added the Industry Competition – Smart Road Track	Added the Practice Competition – Computing Track and Industry Competition – Electric Power Digitalization Track.

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Objective/Strategy for Huawei ICT Competition 2023–2024

1. Cover 7 regions and **focus on all anchor countries to drive industry development**.

2. Project 985/Project 211/Double First Class Initiative universities, and 300+ well-known universities outside China



3. Increase the number of students signed up for the Huawei ICT Competition by 20%. National competitions need to be initiated much earlier.

4. Highlight AI for the innovation track in alignment with the company's business development trends to embrace the intelligent era.

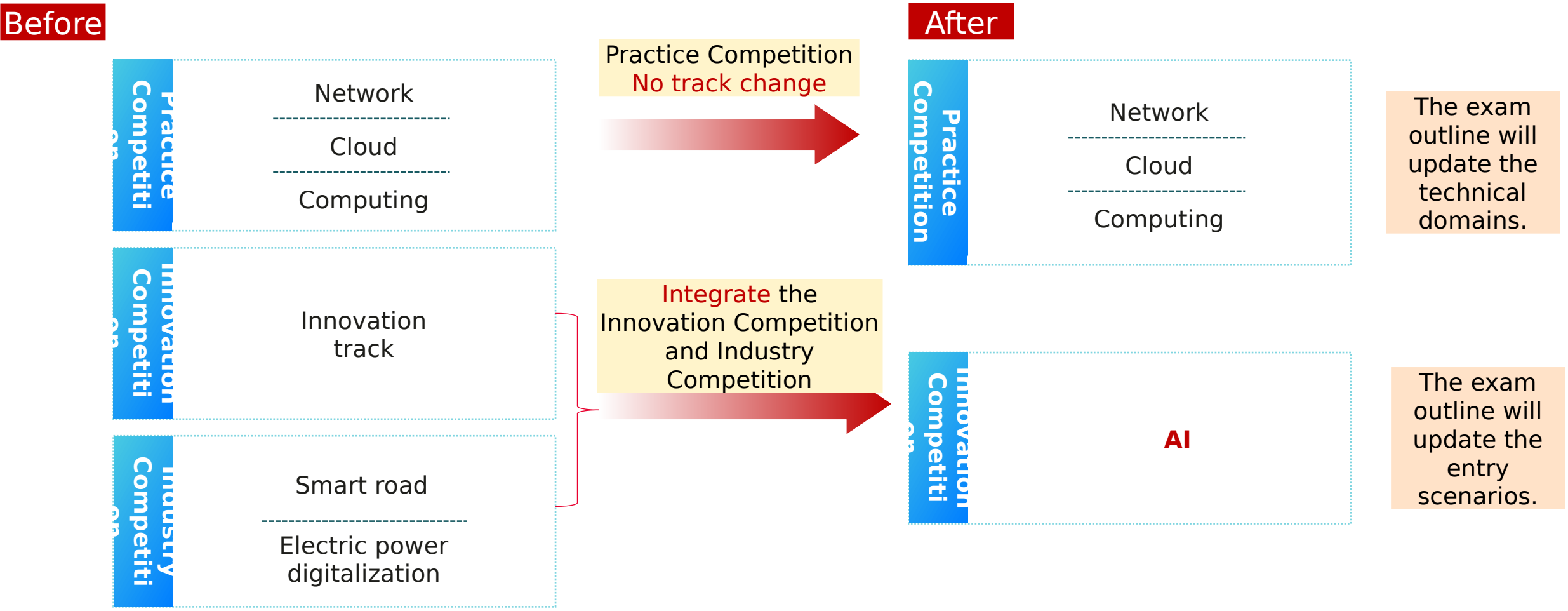
5. Improve the influence of Huawei ICT Competitions around the world (number of KOLs and government officials participating in Huawei ICT Competitions).

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Regional Registration Planning for the Huawei ICT Competition 2023–2024

Region	Anchor Country	5th Actual	6th Actual	7th Actual		8th Target	YoY	Contact
		Registered	Registered	Registered	Outside China (%)	Registered		
Southern Africa	South Africa, Nigeria, and Kenya	54215	14082	16765	31.46%	22025	31.38%	Shui Yu
Northern Africa	Egypt and Morocco	32200	11788	9470	17.77%	12441		He Weiyi
Middle East & Central Asia	Saudi Arabia and UAE	22539	16345	19339	36.30%	25407		Luo Qinglong
Asia Pacific	Thailand, Indonesia, Philippines, and Malaysia	3985	3346	4772	8.96%	6269		Wong Chang Jong
Latin America	Brazil, Mexico, and Colombia	8030	1939	2414	4.53%	3171		Zhang Bosen
Europe	Germany, France, Spain, Italy, and Türkiye	1088	539	522	0.98%	686		Pallavi Malhotra
China		20543	53368	70102	\	80000	14.12%	Wang Chengjie / Chen Xue / Xu Xiaowen
Total		**142600**	**101407**	**123384**		**150000**	21.57%	

Track Planning for Huawei ICT Competition 2023–2024



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Key Milestones of Huawei ICT Competition 2023–2024

HQ-led

We are here

1 High-level design

June 1 – July 31

1. Communicate with regions and leaders, plan for the competition, reach consensus on the competition rules and tracks, specify the quota allocation plan, and establish the project team.
2. Contact suppliers, confirm resources, apply for budgets, and arrange personnel.
3. Initiate the development of exam questions, learning materials, and enablement materials.

Regional-led, supported by HQ

2 Sign-up

July 31 – Oct. 30

1. Open the sign-up portal and publicize the sign-up guide.
2. Work with ICT Academies, HALPs, and universities on drum-up, publicity, and other promotional activities for the competition.
3. Promote the competition by working with educational authorities, associations, and Internet employment service providers.
4. Complete preparing exam outlines and learning materials for national competitions.

3 University roadshow

Aug. 1 – Oct. 30

1. Complete preparing exam questions for national preliminaries by September 30 and the exam questions for national finals by October 30.
2. Complete preparing marketing materials, including KVs, videos, and presentation materials for publicity.
3. Work with ICT Academies, HALPs, and universities on drum-up, publicity, and other promotional activities for the competition.
4. Promote the competition by working with educational authorities, associations, etc.
5. Gather roadshow materials.

4 National competitions & awards

Nov. 1 – Dec. 31

1. Complete preparing exam venues.
2. Complete preparing marketing materials for exam venues.
3. Complete preparing the prizes for national competitions.
4. Awards venues and ceremonies
5. Collect materials for the competition and awards ceremony, and conduct publicity after the competition.
6. Complete preparing exam questions for regional finals by November 30 and the commissioning of the exam environment.

5 Regional finals & awards

Dec. 1 2023 – Feb. 29, 2024

1. Prepare marketing materials for exam venues.
2. Confirm the teams that will participate in the Global Final.
3. Complete preparing the prizes for regional competitions.
4. Awards venues and ceremonies
5. Initiate the preliminary review of the works of the Innovation Competition and Industry Competition.
6. Collect materials for the competition and awards ceremony, and conduct publicity after the competition.

HQ-led, participated by regions

6 Global Final & awards

May 2024

1. Complete preparing exam questions for the Global Final by April 15 and the commissioning of the exam environment.
2. Confirm guests and prepare speeches.
3. Make pre-match publicity for the Global Final.
4. Implement sub-activities.
5. Implement the onsite awards ceremony on May 25.

7 Recaps & Publicity

June 2024

1. Recaps (organization and operation, publicity of award winners, etc.)
2. Publicize excellent practices of award winners.
3. Knowledge harvesting
4. Application of competition results: talent job fairs, internship, recruitment, etc.
5. Complete purchasing prize materials and release e-certificates.

Note:

1. Each region arranges local competitions based on the schedule. The HQ provides necessary resources, such as exam questions, learning materials, marketing publicity, etc.

2. In countries where conditions permit, work with local education authorities to list the competition as an official contest, for example, a national official competition hosted by Huawei and supported by the Ministry of Education or other government agencies.

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Quotas for the Huawei ICT Competition 2023–2024 Global Final (Draft)

- The team and award quotas for each track of the Global Final will be subject to the proportion of students signed up for the competition in each region in and outside China.
- The quotas can be adjusted among tracks of the Practice Competition, and the adjustment must ensure that all anchor countries participate in the competition and there is at least one team from each region for each track.

Region	Team Number Quota by Track for the 8th Huawei ICT Competition Global Final					
Region	**Anchor Countries**	**Network**	**Cloud**	**Computing**	**Innovation**	**Total**
China		18	12	10	10	**50**
Middle East & Central Asia	Saudi Arabia and UAE	10	2	2	4	**18**
Asia Pacific	Thailand, Indonesia, Philippines, and Malaysia	4	4	4	4	**16**
Latin America	Brazil, Mexico, and Colombia	3	5	3	3	**14**
Southern Africa	South Africa, Nigeria, and Kenya	8	6	3	3	**20**
Northern Africa	Egypt and Morocco	6	3	2	2	**13**
Europe	Germany, France, Spain, Italy, and Türkiye	5	2	2	2	**11**
Total	**19**	**54**	**34**	**26**	**28**	**142**
China		33%	35%	38%	36%	35%

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Practice Competition – Competition Rules

I. National Competitions

1. The contestants must be college and university students.
2. All teams must have available PCs and network access conditions.
3. Each contestant can participate in only one track of the Practice Competition. (Those who participate in the Practice Competition must not attend the Innovation Competition, and vice versa.)
4. It is advised that national competitions played in teams to ensure the best teams are selected for regional competitions. The specific team forms will be determined by countries.

II. Regional Competitions (teams):

5. Regional finals are played in teams which are selected from national competitions. It is advised that a team is composed of one instructor and three students from the same Huawei ICT Academy.

Innovation Competition – Competition Rules

I. Who can participate:

The contestants must be college and university students.

II. Requirements for participating teams:

1. Each team must consist of one instructor and no more than three students. The instructor and students must come from the same college or university. It is not allowed to change the instructor and students of a team after successful registration.
2. For the Huawei ICT Competition 2023–2024, team recommendation will be canceled.
3. Teams need to register successfully to attend the competition. **Teams that do not adopt Huawei's technologies**

Competition Rule Changes of Huawei ICT Competition 2023–2024

- The team and award quotas for each track of the Global Final will be subject to the proportion of students signed up for the competition in each region in and outside China.

1. Practice Competition

- In regions outside China, the maximum quota per track for each country is one team, and each anchor country must have at least one team to participate in the Network track of the Practice Competition.
- The maximum quota per track for each rep office in China is one team.
- Exam questions for the Global Final will be prepared for contestants in and outside China respectively.
- Contestants must have participated in a national or regional competition before being qualified for the Global Final.

2. Innovation Competition

- All students either in or outside China will need to register by themselves for the Huawei ICT Competition. It will be canceled that teams outside China participate in the competition upon invitation. It is advised that regions add regional competitions to improve the quality of works by excluding teams who do not use Huawei's technologies for their works from the Global Final.

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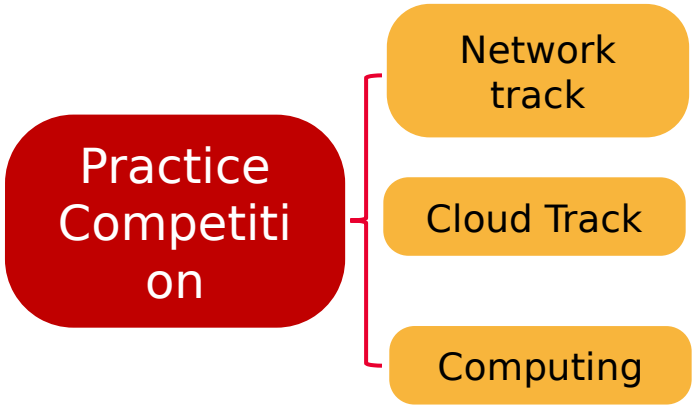
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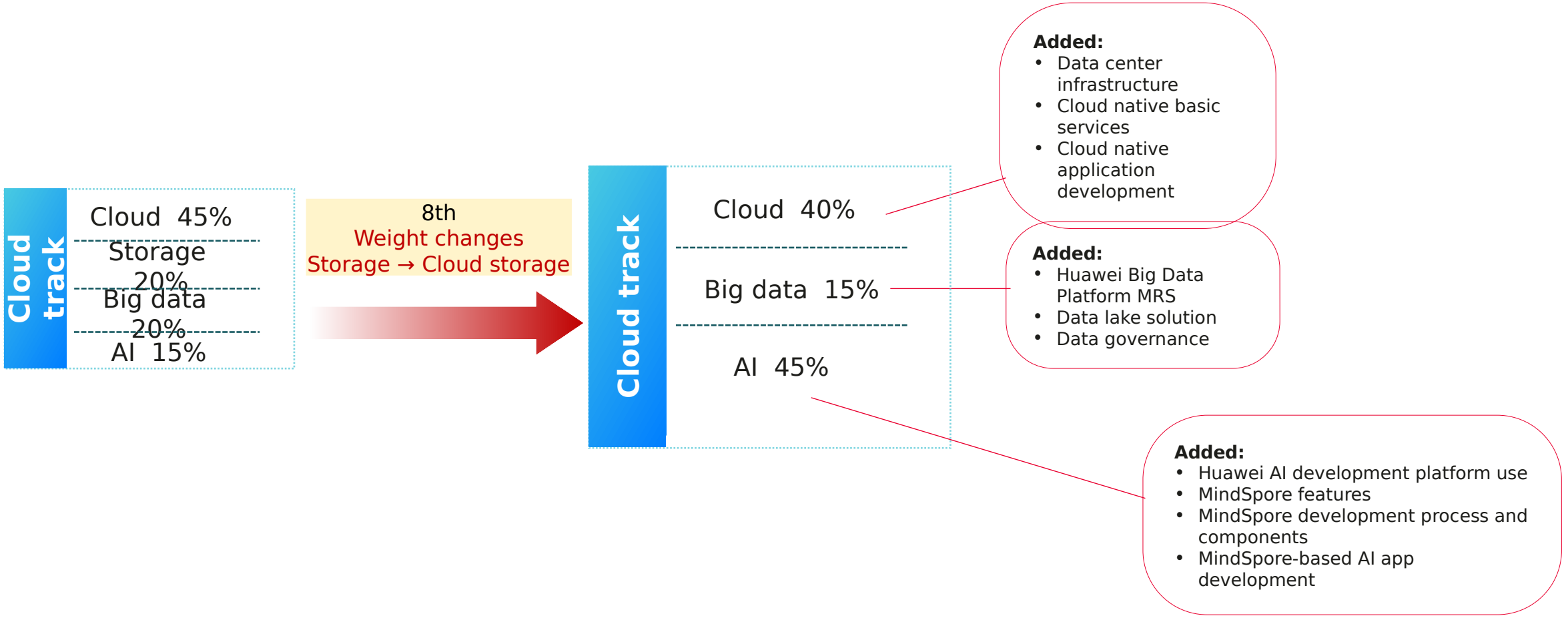
Practice Competition – Three Levels: National > Regional > Global

- The Practice Competition is held in three levels: national competition, regional competition, and global final. In the national competition, it is optional whether to host two rounds, i.e. preliminary round + final round, depending on the number of contestants.
- The HQ will provide theory and lab exam questions, platform, knowledge checkpoints, and knowledge weights required for competitions at all levels. (For details, refer to the exam outlines.)
- Countries/Regions can directly use the exam questions provided by HQ for competitions, or add exam forms and content based on local situations and exam outlines.



National competition		Regional final	Global final
Preliminary	Final		
Written exam 60 questions, 90 minutes	Written exam 90 questions, 90 minutes	Theory exam + Lab exam 60 questions, 60 minutes + Lab exam, 4 hours	Lab exam 8 hours

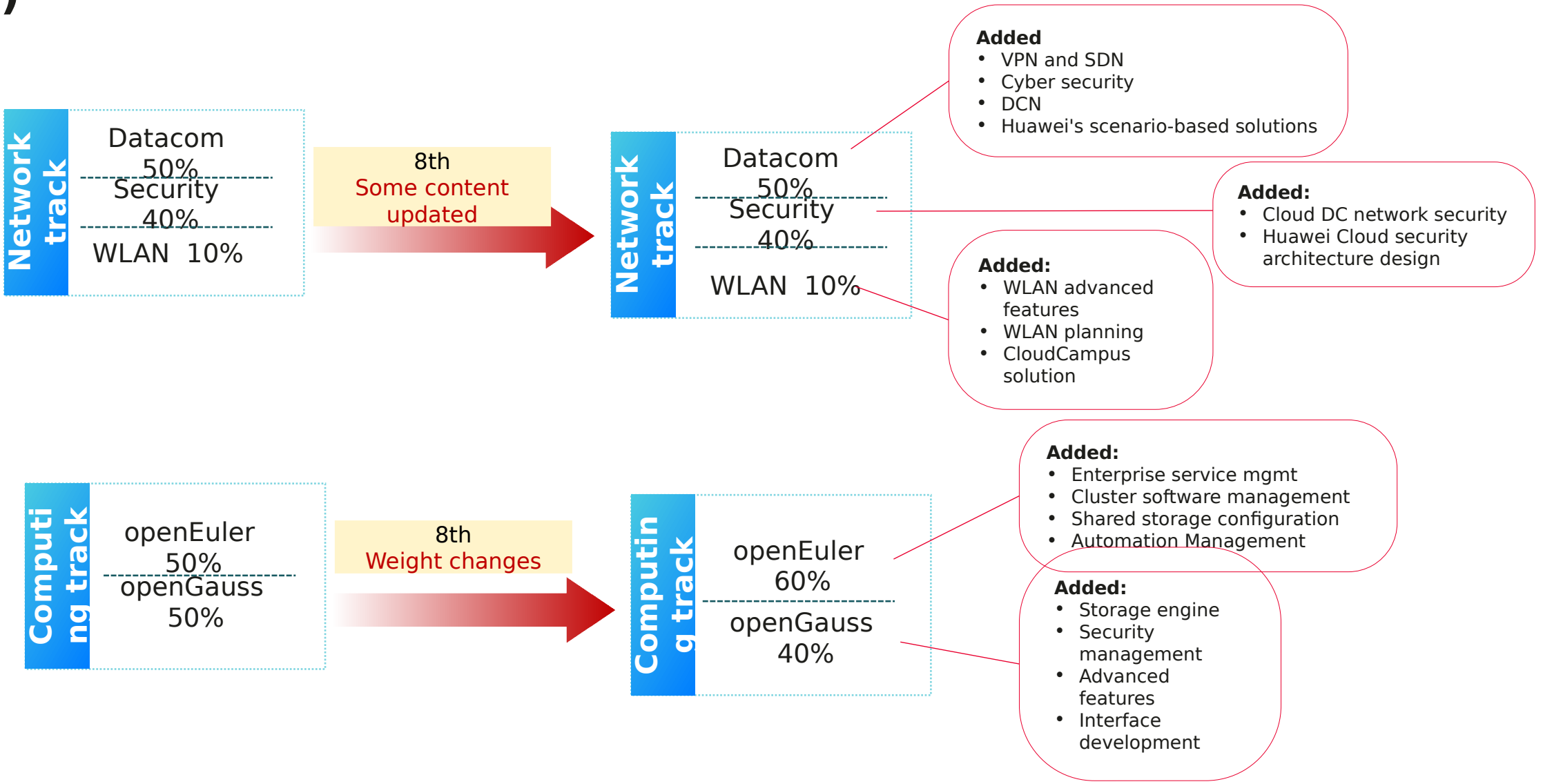
Exam Outline Changes of Huawei ICT Competition 2023–2024 (1/2)



For more details, refer to the updated exam outlines.

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Exam Outline Changes of Huawei ICT Competition 2023–2024 (2/2)



For more details, refer to the updated exam outlines.

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Huawei ICT Competition Learning Space

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Track	Course	Language	Course Link
Cloud Track	Huawei ICT Competition - Cloud Track Learning Space	English	https://talent.shixizhi.huawei.com/course/13651894273952235
Network Track	Huawei ICT Competition - Network Track Learning Space	English	https://talent.shixizhi.huawei.com/course/13651894273952235
Computing Track	Huawei ICT Competition - Computing Track Learning Space	English	https://talent.shixizhi.huawei.com/course/1365189427395223554/application-view?courseId=1592061022026975443&appId=5547596133550530 56&classId=&appType=1

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Practice Competition – Technical Support

Exam platform: Theory exams are carried out on the iLearning platform (Shixizhi). For lab exams, (tentatively) use **Huawei Cloud** for the cloud track and eNSP **simulator** for the network track.

Exam enablement: Assist frontline talent ecosystem managers in building a competition-oriented learning space for students to study before exams. After the global final, add explanations for the exam questions.

Technical support principles for the Huawei ICT Competition 2023–2024

(1) Exam questions. Exam questions for national competitions are distinguished from those for regional competitions. The HQ provides standard theory exam questions and the lab exam questions for regional competitions.

(2) Exam support. Before exams: Provide documents and guidance. During exams: Answer technical questions. After exams: Support exam grading. Local rep offices must arrange technical personnel for onsite invigilation and support, and the HQ must provide remote support.

(3) Invigilation support. Regions need to assign invigilators for national and regional competitions. The HQ can deliver relevant training for invigilators.

(4) National competition forms In principle, national competitions in all regions need to use standard exam questions. It means national competitions include theory exams. Lab exams will not be held for national competitions, because lab environments support a limited number of concurrent requests and the number of student participants may exceed the limit. If lab exams are needed for national competitions, the corresponding region need to complete environment setup on their own.

(5) In principle, the HQ will provide technical support remotely. If regions need onsite technical support for key events, they need to apply to the HQ for onsite resources one month in advance, and the HQ will arrange resources for onsite support. Expenses incurred by onsite support personnel will be charged to regions.

(6) The HQ will make interpretations on the outline and exam questions, and provide a learning space for contestants to study by selves. No targeted training will be provided.

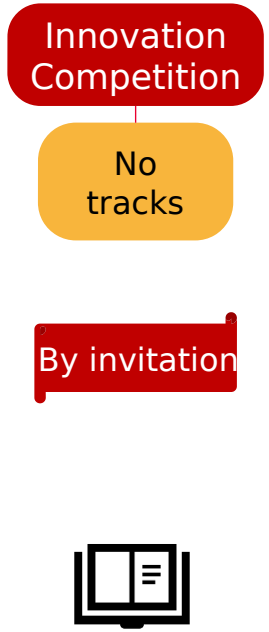
Innovation Competition – Competition Rules Planning

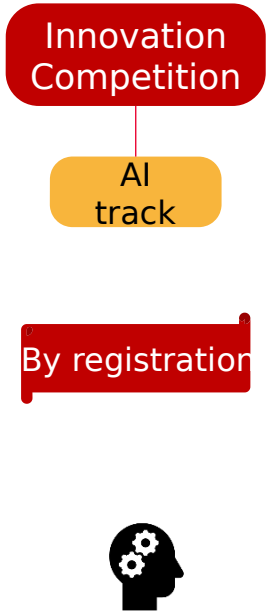
Before

Topics: **No specific tracks** Encourage students to integrate multiple technologies based on Huawei's technical domains such as AI, cloud, AI, IoT, and HarmonyOS.

Rules: Each rep office outside China invites college/university teams to attend national/regional competitions or directly participate in the Global Final. Countries and regions may localize the review process on their own. The competition form will include presentations (10 minutes) and panel assessment (5 minutes).

Topics: Specify three technical domains: **AI, IoT, and HarmonyOS**, and **develop scenario guides (**like prototypes of competition topics**) for different technical domains**.





After

Topics: Set up the AI Track for the innovation competition, start with the real needs in life, assess the players' innovation and application capabilities in using AI technologies and technologies such as IoT, Harmony, cloud computing, and big data, and encourage participants to propose solutions with social benefits and commercial value. And design a fully functional work or model. (Global)

Rules: Teams outside China will need to register before attending the competition. Team invitation will be cancelled. Contestants must attend national or regional competitions before reaching the global final. If only one country participates in the competition in a region, the regional competition must be held as usual. The competition rules are consistent between regional competitions and the global final. Regional competitions may be held either online or offline, and include presentations (15 min) and panel assessment (10 min). A panel must include at least three assessors. At least 5 assessors for the global finals.

Topics: Prepare topics for the AI track and update the review criteria to further improve the technological advancement and relevance. Review criteria are consistent between regional competitions and the global final.

1. AI technologies: (1) MindSpore (including suites) 2) CANN ; Common AI technologies: Huawei AI technology (mandatory) + IoT/ Harmony/cloud computing/big data (optional)
2. Covered scenarios: transportation, medical care, electric power, finance, aviation, industrial quality

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Roadshow Video of Huawei ICT Competition 2023–2024



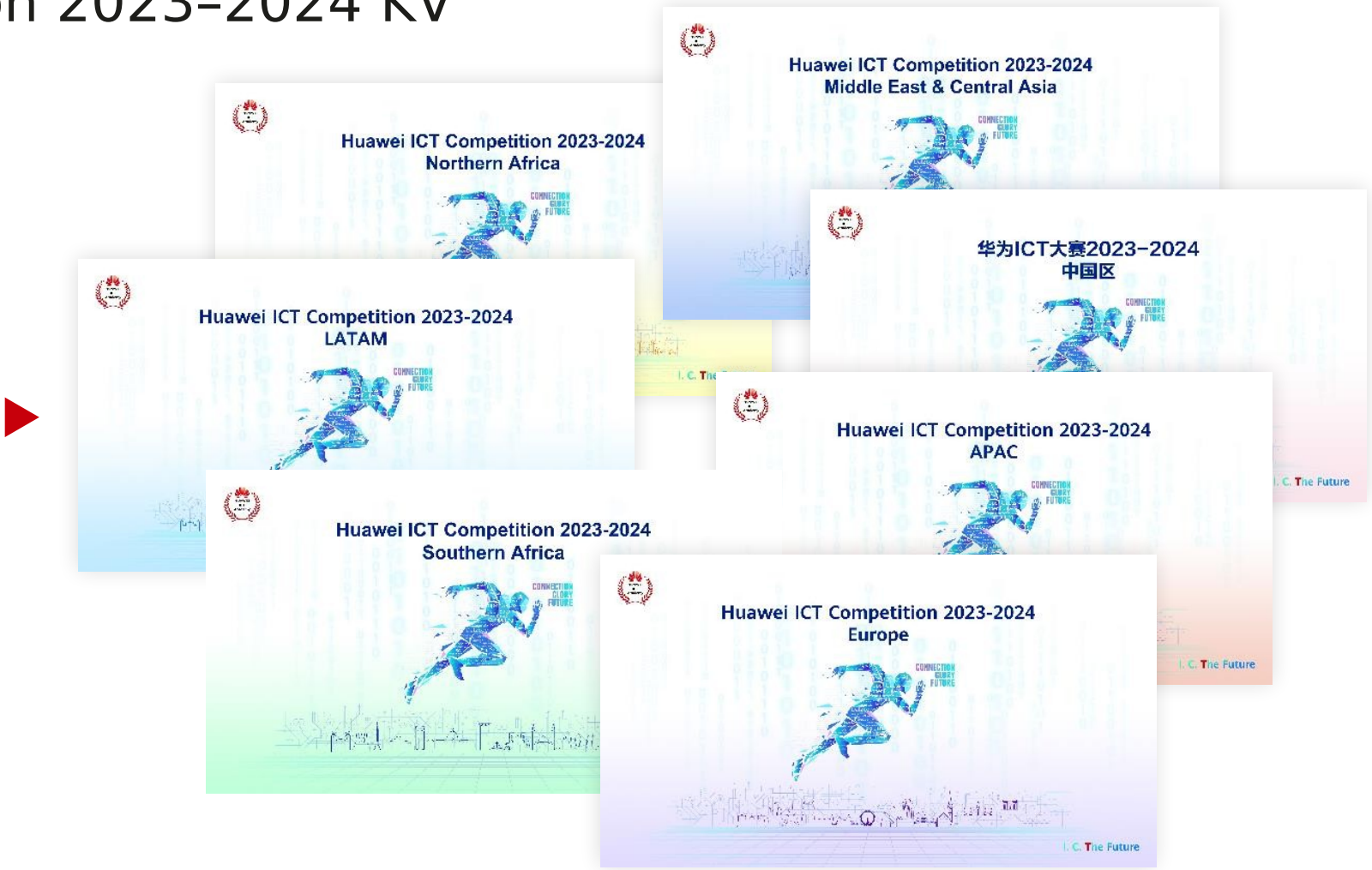




Video library link: [ICT Competition 2023-2024 Roadshow]

Huawei ICT Competition 2023–2024 KV





Paving the digital journey beyond the intelligent world

Design concept: The KV evokes the keywords "future city" and "digital technology" to illustrate the ideas conveyed by the competition.

Marketing Materials for Huawei ICT Competition 2023–2024 (Regional Competition)

Marketing materials include the KV, PPT templates, certificates, and other extended materials. There are 23 items in tota

Download link: ICT Competition Regional Notification (huawei.com)



Note:

Regions need to comply with the *VI Specifications for Huawei ICT Competition 2023-2024 (Regional Competition)* when preparing or using



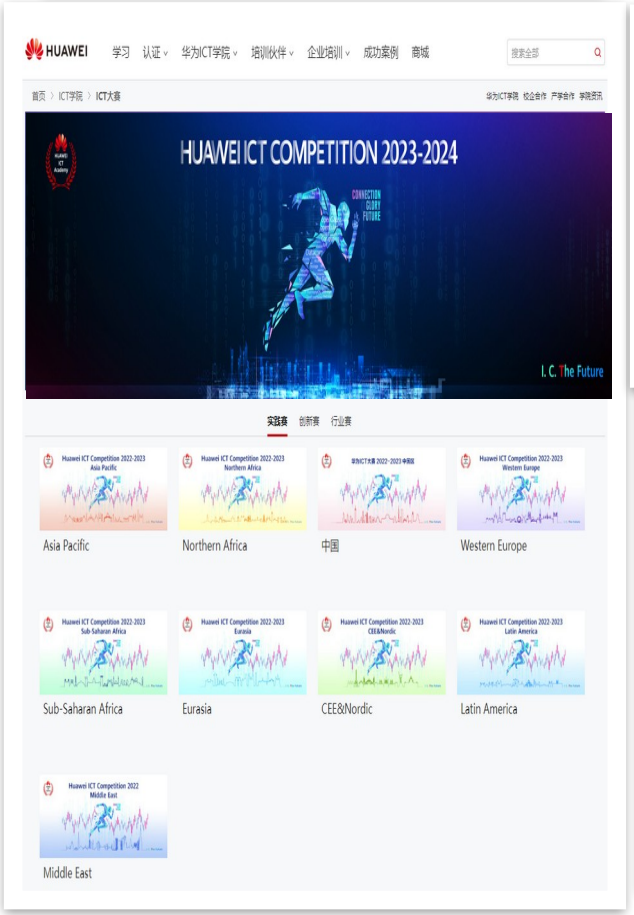




Huawei Talent – Official Registration Platform for the Huawei ICT Competition 2023–2024

Step 1

Select the Track/Region



Step 2

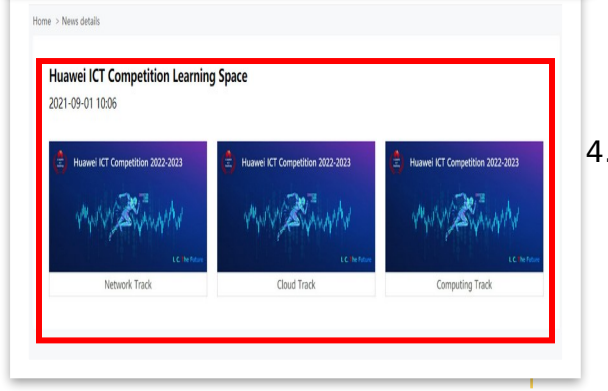
Register Online



Step 3

Take Online Courses





1. One-stop registration: Users are able to filling in information on one page for registration. (Registration information can be modified before the registration deadline)
2. When ICT academy students sign up for the competition, the system will automatically match their colleges/universities. The students will not be able to change the college/university fields.
3. The Level-2 College field will be added to the registration page of the Practice Competition and Innovation Competition for students outside China. (Note: China already done before.) The system will verify this information at least four Chinese/English characters must be filled in this field.
4. The email address and phone numbers fields are mandatory for students who sign up for the Practice and Innovation Competitions. Add gender collection function (optional)

Applicable Scenarios of Academy Development Incentive Fund (ADIF)

1.Regulations on the Academy Development Incentive Fund (ADIF) for Global Enterprise Business V1.0

Link: http://w3.huawei.com/info/en/doc/viewDoc.do?did=5423613&cata=135741

2.ADIF □□□□□□□□□□ http://3ms.huawei.com/km/groups/1003279/blogs/details/1005700 ADIF Contactor：Sunzhenxia 84236416

No.	Scenario	Project code	Scenario description	
			Huawei ICT Academies	IASCs
1	Teacher enablement	8051220	• Teacher training, exams, certifications, etc.	• IASCs independently develop Huawei ICT academies, such as making promotional presentations and holding forums. • Support and improve the operational efficiency and quality of Huawei ICT academies, train teachers of Huawei ICT academies, assist Huawei ICT academies to create classes and courses on Huawei's platform, and increase the number of teachers and students of Huawei ICT academies and the number of Huawei certifications they obtain. • Assist Huawei in organizing marketing events for Huawei ICT Academies, such as teacher forums, talent job fairs, **Huawei ICT Competitions**, Huawei technical forums, and other forums relating to education and training.
2	Huawei ICT Academy development and operation		• Invest in teaching planning, course development, course integration, lab environment preparation, etc. • Motivate academies, teachers, and students who achieve key objectives (for example, in teaching)	
3	Students and teachers to obtain Huawei's learning and exam resources		• Obtain resources such as lab practices, online experiments, and exams (including HCIA and HCIP exam vouchers).	
4	Marketing campaigns	8051221	• Activities relating to Huawei ICT competitions, such as training, awarding, competitions, technical support, and media publicity • Talent job fairs, HCIE salons, teacher seminars, student clubs, expert committees, etc. • Joint activities with external educational organizations such as the Ministry of Education and the Teaching Steering Committee of the Ministry of Education	

Note: Scenarios 1 and 3 are applicable only to **students and teachers of the Huawei ICT Academies that have been associated with and are of the Certified level or above.**

It is prohibited to apply for ADIF through the SSE and eTravel systems. It is not allowed for individuals to pay by themselves for ADIF reimbursement. ADIF covers only marketing activities between organizations, which must not be allocated directly to specific individuals.

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Operation Guide to Applying for Regional Competition Registration Web Pages

1. The registration web pages will be opened by region. If some countries need their separate registration web pages, they need to specify the reasons and submit them to the HQ (regional contact, Han Yu/00622758) for review.

2. Applications must be filled in according to the regional competition planning.

3. It must be clearly specified that which countries will attend the competition and which ICT Academies these countries are associated with on the list of countries and ICT Academies.

4. The *Introduction to the 「ICT Competition Registration Page - Practice Competition」* and *「ICT Academy List」* must be sent to liubisheng /84290870 one week in advance for opening the regional competition registration page.

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Huawei ICT Competition Enablement Platform

Platform	Link	Remarks
Huawei ICT Competition official website	Huawei ICT Competition official website	Student registration, entry/project upload, and news
Talent ecosystem IOC data dashboard	IOC V1.3	Statistics about ICT Academies, ICT Competitions, HALPs, and more
Talent ecosystem bookshelf	Link	Partners, businesses, document description, and links
iLearning (Shixizhi)	iLearning – Your Digital Academy	Explanations of exam questions, learning maps, exam outline and explanations for the Practice Competition and Innovation Competition, and explanations of competition topics
Talent Partner Development Dept Bookshelf (MKT materials portal)	Talent Partner Development Dept Bookshelf	Selected documentations, success stories, marketing materials, and more
Huawei ICT Competition Team Space	Huawei ICT Competition 2023-2024	Sharing documents with team members

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Prizes Distribution Progress of the Huawei ICT Competition 2022–2023 Global Final

Region/Prize	Grand Prize	First Prize	Second Prize	Total	Status
Asia Pacific		8	24	64	Processing
Europe			4	19	Processing
Latin America		4	20	52	Processing
ME&CA		8	16	47	Processing
Northern Africa		9	9	40	Processing
Southern Africa	4	20	32	76	Processing
China	48	60	71	179	Done
Total	**52**	**109**	**176**	337	

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Q & A

Thank you.

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Bring digital to every person, home and organization for a fully connected, intelligent world.

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