ITER Organization

2010 Annual Report

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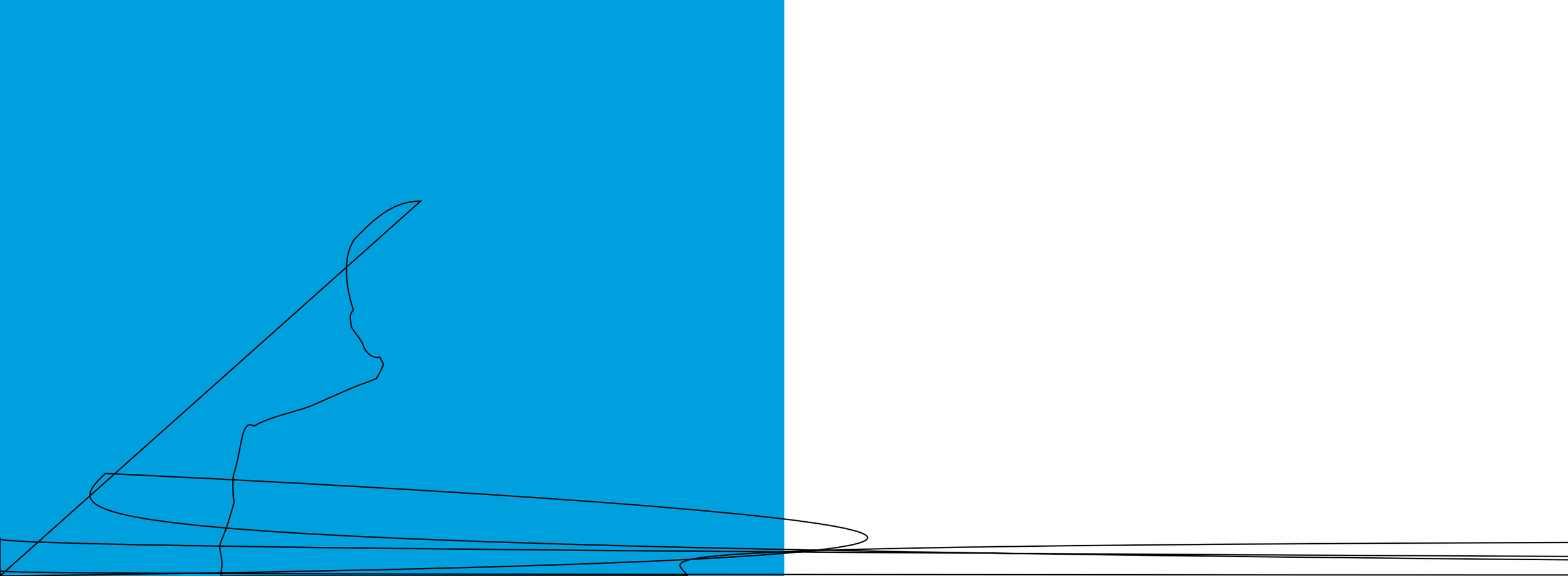
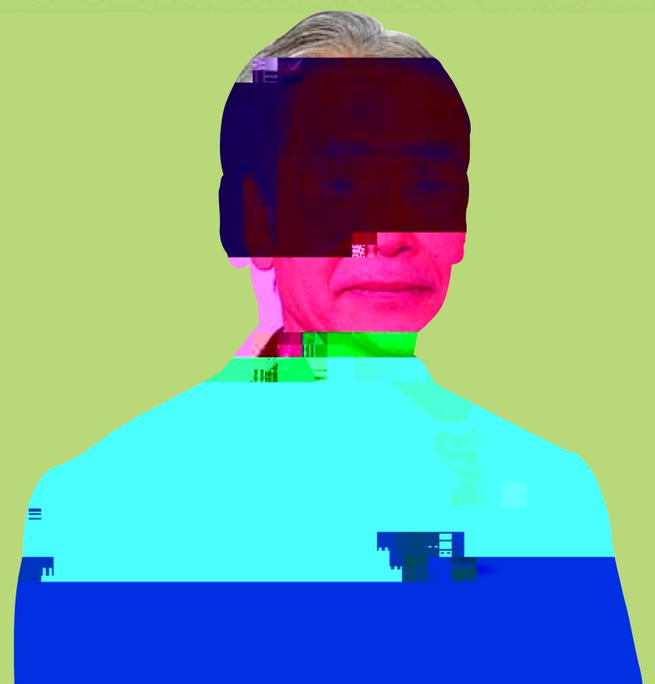


From the Director-General



Professor
Osamu Motojima

The date of 28 July 2010 will remain in the annals of ITER history. On this day the ITER Members agreed on the Baseline for the technical scope, schedule and cost of the project, clearing the way for construction to begin. I wish to express my appreciation to all of the people involved with this collaborative undertaking—whether working at the ITER Organization, at the Domestic Agencies, or as a Member delegate.

Together, what we aim to achieve is not only the success of ITER but also the success of fusion. Professor Osamu Motojima, Director-General of the ITER Organization.

The schedule ahead is a challenging one: achieving First Plasma in November 2019 and Deuterium-Tritium operation before March 2027 will require an efficiently executed, well-synchronized effort. We support the schedule the Domestic Agencies have proposed, which includes adequate contingency allowances to provide cautious, progressive advancement through the commissioning process. The ITER Council has established a ceiling for the Construction Phase of the project that cannot be exceeded; staying within this envelope will require adherence to the cost estimates. We support the budgetary basis established by the Members of the ITER Project.

In the years ahead, I have identified several challenges that the ITER Organization must meet. Since the beginning of my mandate, significant progress has been made in the design and procurement of the machine. The delivery of the first major components, including the vacuum vessel sectors and the cryostat base, has been followed by the delivery of the first toroidal field coil. The delivery of this equipment will require the dedicated leadership and undivided attention of the Organization's management and staff.

The beginning of the construction activities at the ITER platform was a milestone signified by the ITER groundbreaking ceremony in October 2010. Progress was also seen in the Domestic Agencies where the high-technology facilities dedicated to the ITER project are now in place. Members, and the Chairs of the ITER Technical Boards, visited the Japanese Domestic Agency's Rokkasho site in December 2010. The project's critical path runs through the Assembly Hall: 17 Poloidal Field coils are being assembled in the Hall, and all are scheduled to be delivered by the end of 2011.

The ITER Organization was successfully reviewed in 2010 by the ITER Council Boards: the Management Advisory Committee (MAC) and the Science and Technology Advisory Committee (STAC). My deep thanks go to the Chairs of the ITER Council, Eugene Velikhov; the Chairman of the MAC, Professor Gong-Su Lee; and the Chairman of the STAC, Professor Wang Yaofeng. Their experience, combined with the dedication and hard work of their colleagues, is helping to guide the project.

Looking ahead, the challenges that lie before us are significant. Together, what we aim to achieve is not only the success of ITER but also the success of fusion. Should we succeed, the benefits will be felt around the world for generations to come.

Professor Osamu Motojima
Cadarache, April 2011

se ices, ed ced issi c s s a d ga i a i a sa i gs.
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c i g Edge L ca i ed M de (ELM) dis bu ces, he ce-
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e-y e a a i f he a ied diag sics f ITER. The
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c d c he -y . A e e Asse b & I s a a -

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Staffing

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The ITER S aff C i ee e e i es d i g he ea. The C i ee f Hea h a d Safe i ed e ai s i h he He e ch ab ad i is ai a d f ai ed s e a- i a Cha e.

Finance

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R&D

The ITER O ga i ai sig ed a Me a d f U de s a di g d i g he ea ech ica c e ai h he Na i a

Highlights by Department

Office of the Director-General (ODG)

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¬yi hi he Ba e I eg a ed P d c Tea , a ed c i i he

In 2010, the Industrial Architecture and Engineering Division (IAE) was created. As the Industrial Architecture and Engineering Department (IAE), the Division is the ITER Organization's design authority for the Tokamak Complex and its auxiliary buildings. The Division's mission is to ensure that the design of the buildings and their nuclear installations meet the requirements of the ITER Project and the applicable regulations.

The Division's engineers and architects have the technical and scientific knowledge to design the buildings that will house the ITER machine and its auxiliary systems. They also have the expertise to design the buildings' nuclear installations, which will be used to handle radioactive materials. The Division's engineers and architects have the technical and scientific knowledge to design the buildings that will house the ITER machine and its auxiliary systems. They also have the expertise to design the buildings' nuclear installations, which will be used to handle radioactive materials.

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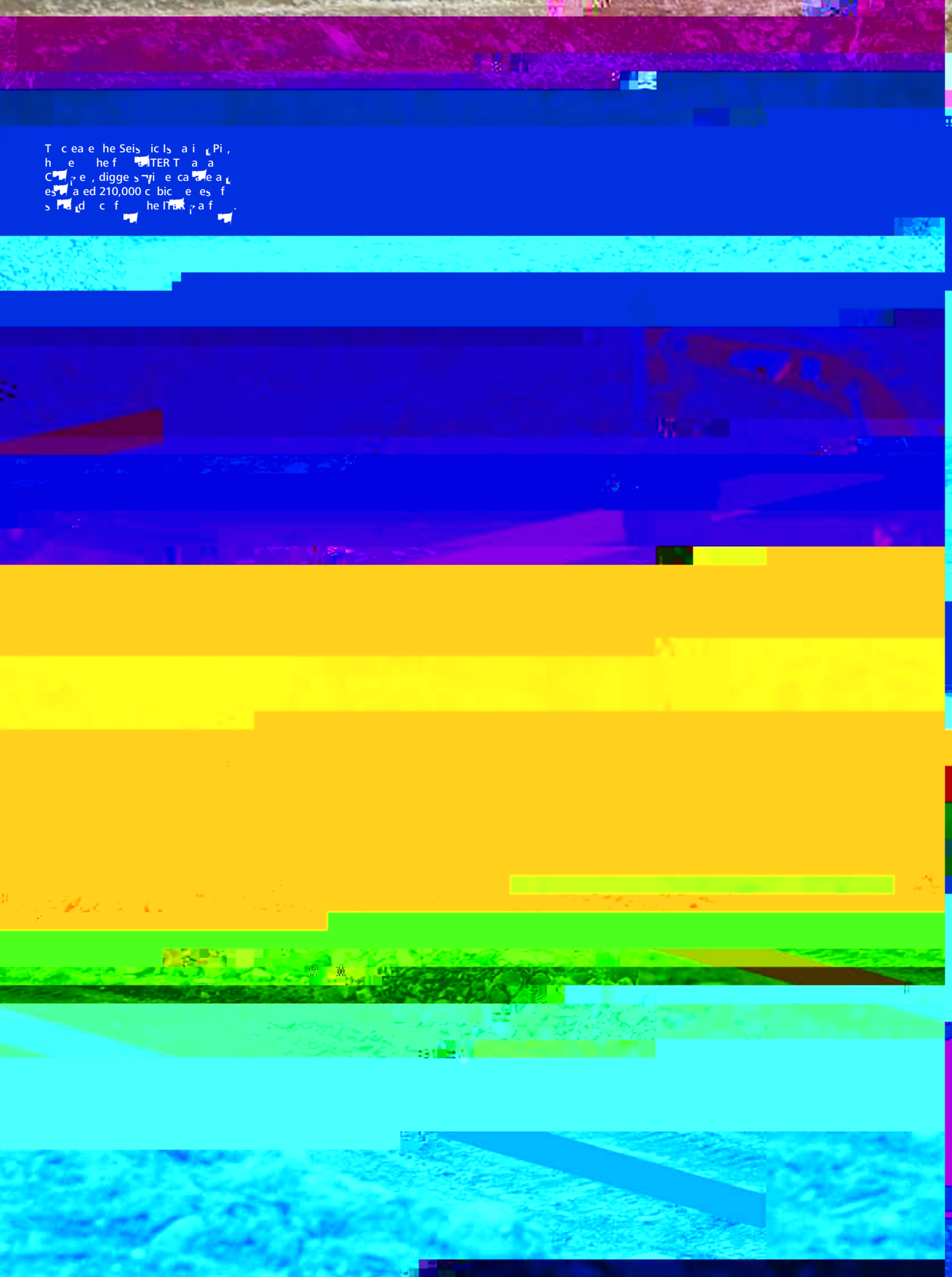
C d c ha he ITER O ga i a i i iss e as a f he



Staffing & Financial Tables

Commitments Execution—Cash and In-Kind Task Agreements and Secondments (a g esi i E s)

	Total Commitment Appropriations	De-commitments and Transfers of Previous Years' Commitments	Total Commitments 2010	Unused Commitment Appropriations carried forward to 2011
Ti e I:				
Di ec I es e (F d)	18.55	-	18.13	0.42
Ti e II:				
R&D E e di e	28.08	1.26	26.17	3.18
Ti e III:				
Di ec E e di e	176.05	3.25	171.74	7.56
Total	222.69	4.52	216.04	11.16

Payments Execution—Cash and In-Kind Task Agreements and Secondments (a g esi i E s)

	Total Payment Appropriations	Write-Offs and Transfers of Special Account Items	Total Payments 2010	Unused Payment Appropriations Carried Forward to 2011
Ti e I:				
Di ec I es e (F d)	10.88	-	6.90	3.98
Ti e II:				
R&D E e di e	30.61	0.19	23.09	7.33
Ti e III:				
Di ec E e di e	159.16	0.61	136.33	22.22
Total	200.65	0.80	166.32	33.53

Contributions from Members (a g esi i E s)

Member	Money	Task Agreements and Secondments	Procurement Arrangements	Total
Chi a	12.01	0.60	-	12.60
E a	55.72	9.53	6.66	71.91
I dia	11.93	2.44	1.86	16.23
Ja a	12.01	-	27.91	39.91
Re b ic f K ea	12.01	2.60	1.71	16.31
R ssia Fede a i	12.01	0.41	-	12.41
U ied S a es f A e ica	11.15	3.92	3.88	18.95
Total	126.81	19.49	42.02	188.32

Cumulative Credits Notified to the Members (i IUA)

Member	Secondments	Task Agreements for Credit	Procurement Arrangements	Total
Chi a	0	380	0	380
E a	11,731	4,178	4,290	20,199
I dia	0	2,227	1,200	3,427
Ja a	594	0	17,980	18,574
Re b ic f K ea	271	1,675	1,100	3,046
R ssia Fede a i	0	261	0	261
U ied S a es f A e ica	1,426	2,632	2,500	6,558
Total	14,022	11,352	27,070	52,445

Cumulative Credits Notified to the Members (i i E s)

Member	Secondments	Task Agreements for Credit	Procurement Arrangements	Total
Chi a	0.00	0.59	0.00	0.59
E a	17.72	6.48	6.66	30.86
I dia	0.00	3.45	1.86	5.31
Ja a	0.87	0.00	27.91	28.78
Re b ic f K ea	0.40	2.60	1.71	4.71
R ssia Fede a i	0.00	0.40	0.00	0.40
U ied S a es f A e ica	2.15	4.07	3.88	10.10
Total	21.14	17.59	42.02	80.75

These tables show tabulations in million Euros which could cause minor differences due to rounding.

Organizational Chart

This new organizational structure, approved by the ITER Council in November 2010, will be fully operational in June 2011.

Financial Audit Board

Management Advisory Committee

ITER Council

Science and Technology Advisory Committee

Test Blanket Module Program Committee

Office of the Director-General

- IO Sa egic Pa i g
- E e a Rea i s
- C ica i
- O he s
- ITER C ci Sec e a ia
- I e a A di Se ice
- Lega Affai s

Osamu Motojima
Director-General

Project Board

Bureau of International Cooperation

- DDG Chi a
- DDG EU
- DDG I dia
- DDG Ja a
- DDG K ea
- DDG R ssia
- DDG USA
- IO-DA Coordination

Department for Administration
DDG & Director:
Richard Hawryluk

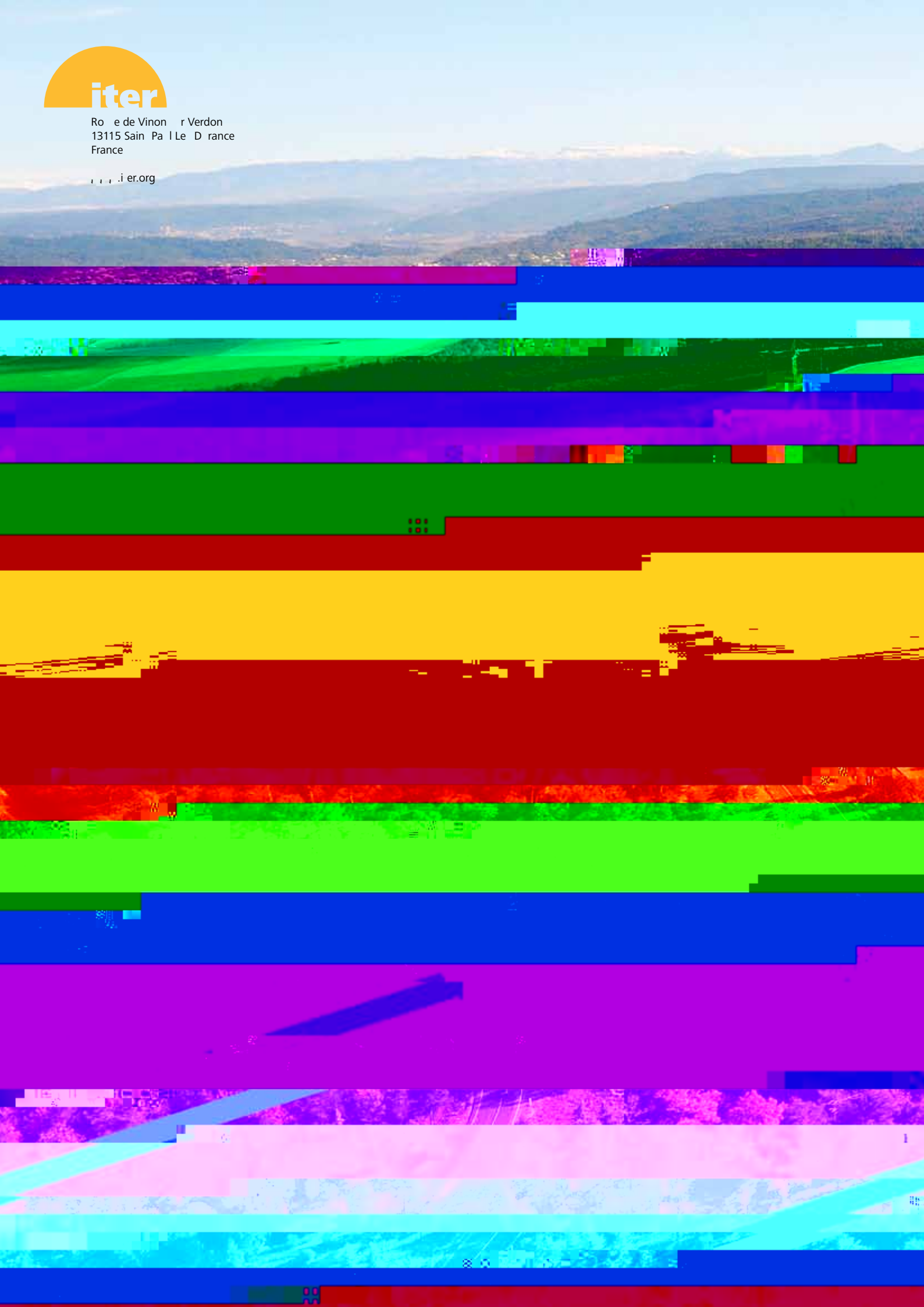
- Directorate for General Administration
  - H a Re ces
  - P c e & C a
  - D c e C
  - Ge ea Se ices
- Directorate for Finance, Budget & Control
  - Fi a ce & B dge
  - P Ma age e
  - P If ai S s e

Department for ITER Project
DDG & Director: Remmelt Haange
Chief Scientist: Valery Chuyanov

- Directorate for Plasma Operation
  - Scie ce
  - Tech g
- Directorate for Tokamak
  - Mag e
  - Vesse
  - I e a C e
- Directorate for Central Engineering & Plant
  - Ec ica E gi ee i g
  - F e C ce E gi ee i g
  - Pa E gi ee i g
- Directorate for CODAC, Heating & Diagnostics
  - C S se
  - Diag s ics
  - Hea i g & C e Die
- Directorate for Building & Site Infrastructure
  - B idi g S se
  - Si e Ma age e & L gis ics
  - N cea B idi gs
  - N N cea B idi gs
- Directorate for Central Integration & Engineering
  - Asse b a d O e i s
  - CAD & Desig C di ai
  - Tech ica I egai

Department for Safety Quality & Security
DDG & Director:
Carlos Alejaldre

- Hea h & Safe C
- N cea Safe & A a sis
- Q ai Ass a ce



Ro e de Vinon r Verdon
13115 Sain Pa l Le D rance
France

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