

# Capacity Building and E-learning

## The Olacefs Experience

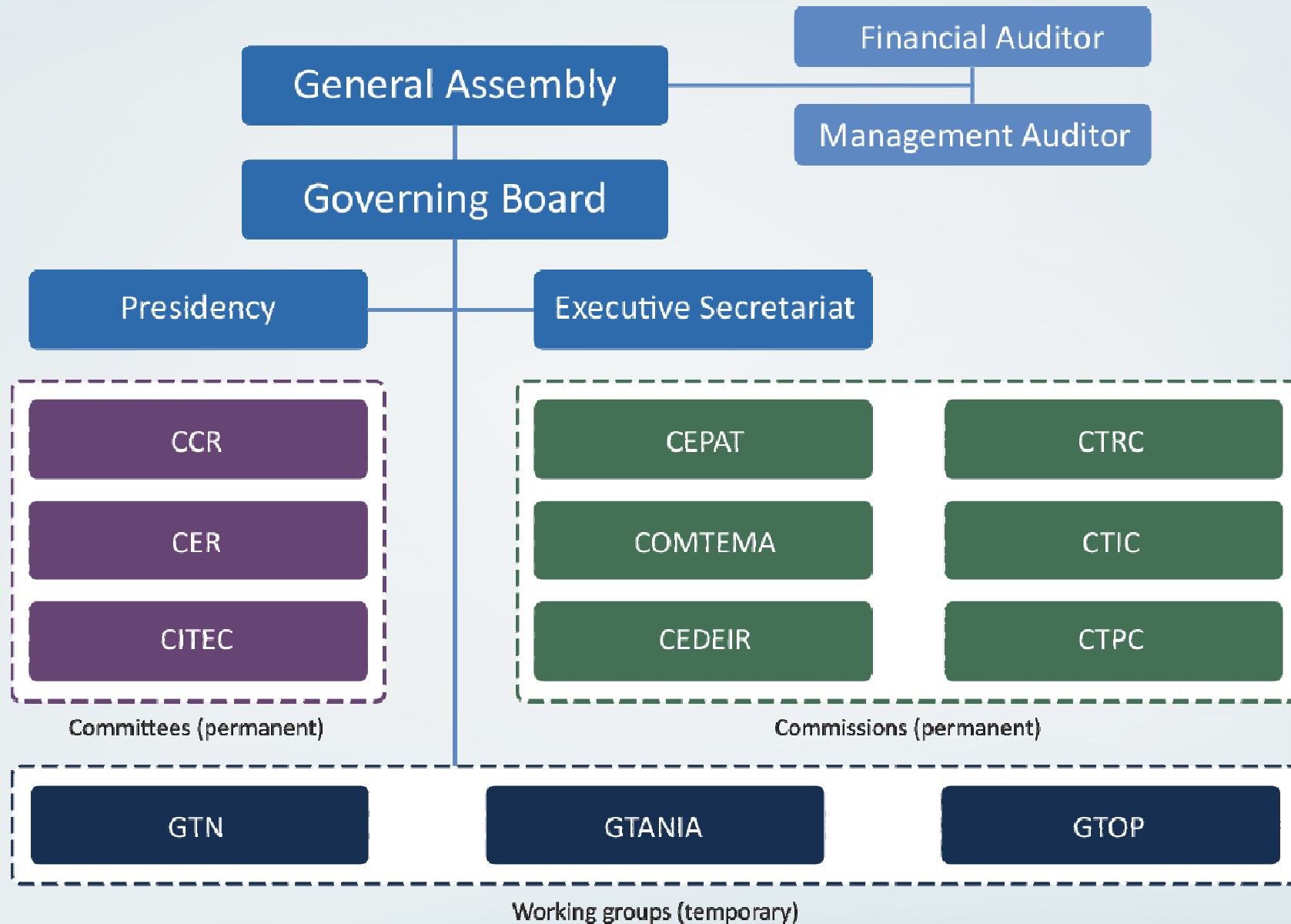
INTOSAI/CBC Strategy

Lima, September 2014

# OLACEFS

- Regional INTOSAI Group
- Formerly established in 1965 (first Congress in 1963)
- 21 full members
- 11 affiliate members
- 2 adherent members
- 1 permanent observer

# OLACEFS



# Capacity Building and E-learning

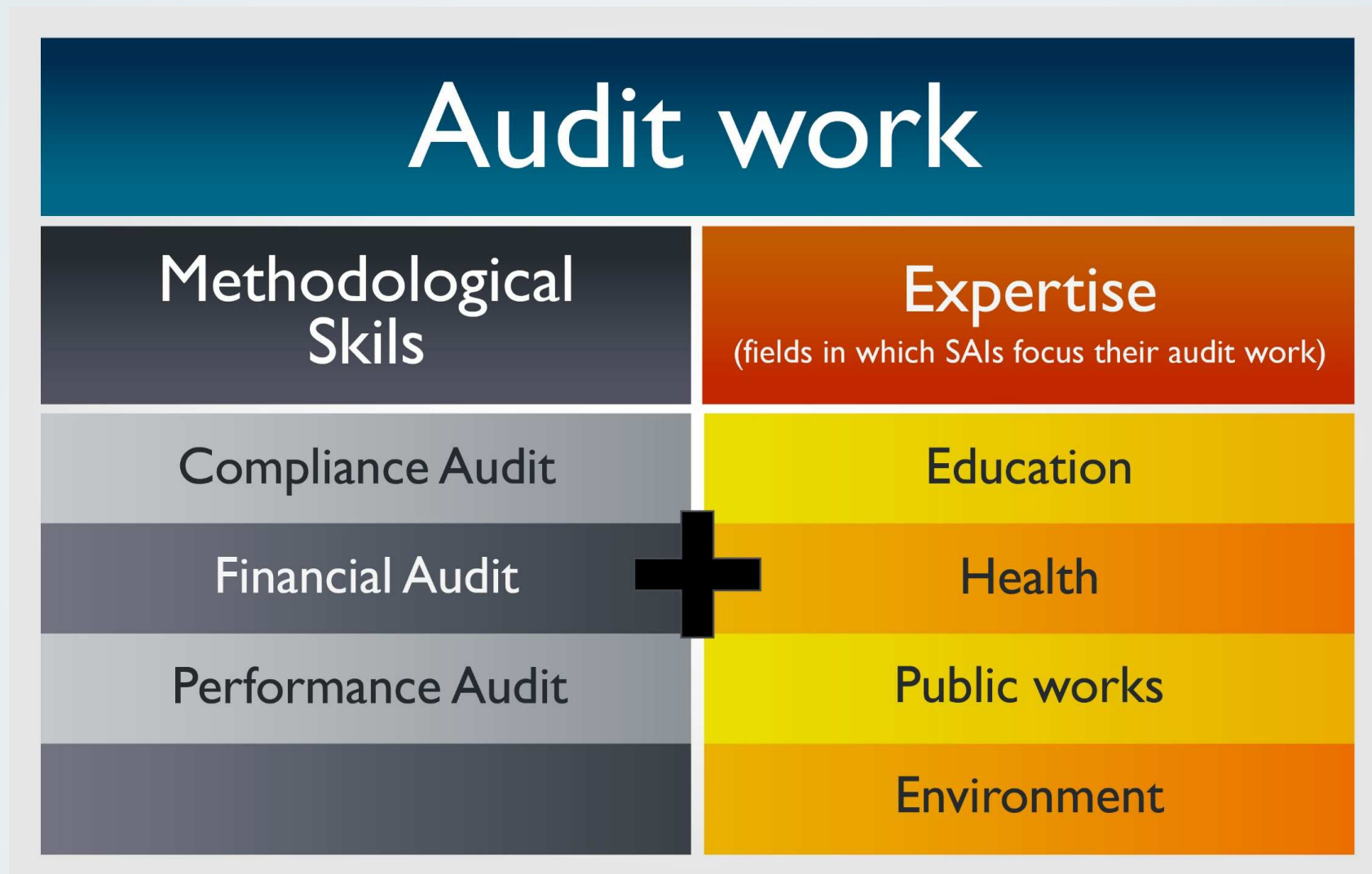
Performance Auditing in Olacefs

# Performance Auditing

## E-learning and capacity building

Coordinated audits 2011-2014	6
Onsite Seminars / capacity building activities	6
PA E-learning Course – participating SAIIs	20
PA E-learning Course – Auditors trained	331

# The contemporary government audit paradigm

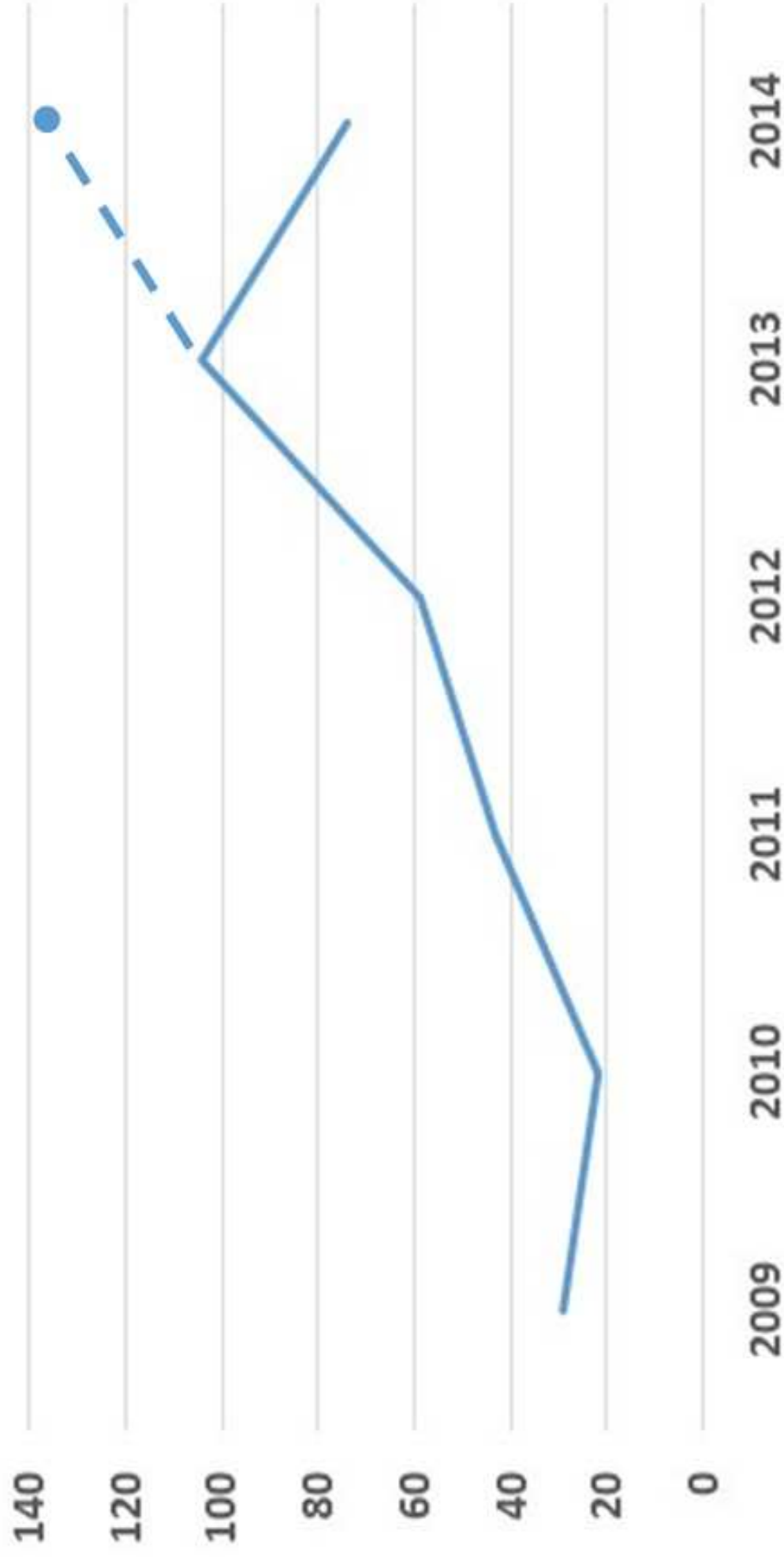


Year	Number of SAIs	Number of auditors approved
2009	11	29
2010	7	22
2011	13	43
2012	14	59
2013	15	104
2014	15	74 (*133)
Total	20	331

# E-learning Performance Auditing



## Auditors Trained





# Other E-learning courses in 2014

Country offer	Courses	SAIs	Auditors trained
Brazil	4	20	246
Others	5	14	148
TOTAL	9	20	394

# E-learning

- Reaches a lot of students
- Used all over the world
- Moderated PowerPoint lecture
- Lecture audio transcript
- Printable slides for lecture
- Video demonstration
- Video audio transcript
- Supplemental readings on subject matter

# Online course types

1. Traditional Undergraduate Level

2. Traditional Graduate Level

3. Hybrid (or Blended) Distance Education Courses

4. Flipped Classes

5. Mass Open Online Courses (MOOC)



# Online course types

## 1. Traditional Undergraduate Level

- great deal of instructor to student interaction
- generally not self-paced
- instructor fully involved with activities/keeps in close contact with each student
- limited in size (under 50 students)



# Online course types

1. Traditional Undergraduate Level
2. Traditional Graduate Level

- Usually not self-paced
- More interaction among the students with the instructor in a facilitation role



# Online course types

1. Traditional Undergraduate Level

2. Traditional Graduate Level

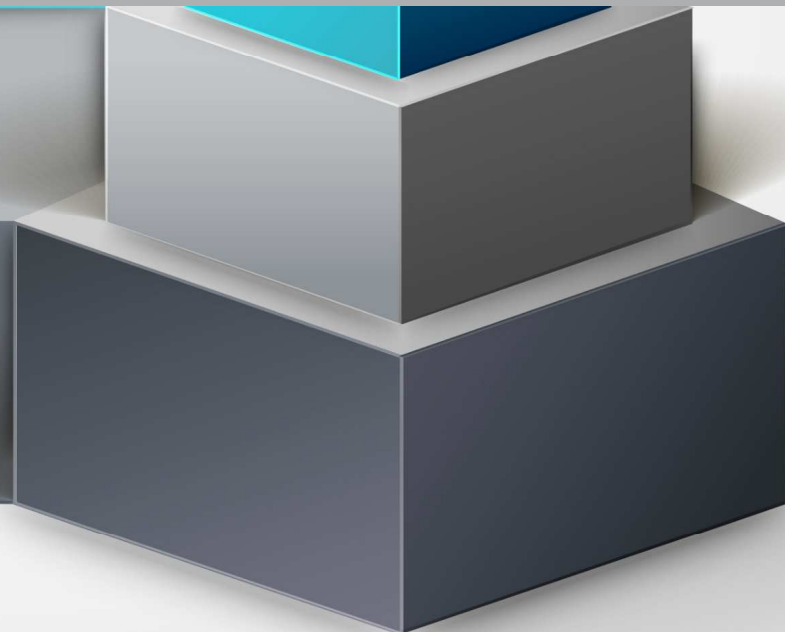
3. Hybrid (or Blended) Distance Education Courses

- Partially online courses
- students required to attend face-to-face meetings



- take place in face-to-face classrooms
- online content/activities = major component of the course
- content best done by students on their own (watching video lectures, reading, doing tutorials, etc.)
- Students complete the work online before coming to class

#### 4. Flipped Classes



- Big number of students (hundreds or thousands)
- Limited interaction with instructor → Low cost
- Instructor: designs the course and offers its content
- May have peer tutors/teaching assistants
- Machine graded tests and assignments
- Peer graded work
- May be self-paced

## 5. Mass Open Online Courses (MOOC)





# Online course types

1. Traditional Undergraduate Level

2. Traditional Graduate Level

3. Hybrid (or Blended) Distance Education Courses

4. Flipped Classes

5. Mass Open Online Courses (MOOC)

How about TCU?

Courses offered to Olacefs would be here

# Online course types

1. Traditional Undergraduate Level

2. Traditional Graduate Level

3. Hybrid (or Blended) Distance Education Courses

4. Flipped Classes

5. Mass Open Online Courses (MOOC)



What's trending in e-Learning

# TCU's experience Social Assistance Councils

- MOOC
- Self-paced (always available)
- Online machine graded tests and assignments
- There are no tutors (supervision to avoid abuses)
- 5 months development: launched on December 16, 2013

# TCU's experience Social Assistance Councils

- Today: more than 6,000 enrolled students
- Almost 1,300 students finished the course (minimum grade: 80%)
- Development cost: U\$ 6,200

# MOOC state of the art

- Khan Academy
  - Lessons delivered: 300M+
  - Problems completed: 1.4Billion+ (~ 4M per day)
- edX = MIT + Harvard + Caltech
  - Course enrollment: 1million
  - More than 100,000 certificates
- Coursera = Princeton + Johns Hopkins + WB
  - More than 4 million students
  - About 400 courses

# INTOSAI Capacity Building Needs

E-Learning  
State-of-the-art

Intosai

CBC





# Kahn Academy

- Foundation: September 2006
- Teaches:
  - Math
  - Science topics such as:
    - biology, chemistry, and physics
  - Humanities
    - playlists on finance and history

# Kahn Academy



- November 2013 statistics:
  - Unique users per month: 10M
  - Lessons delivered: 300M+
  - Problems completed: 1.4Billion+ (~ 4M per day)
  - Practice problems: 100,000+
  - Instructional videos: ~5100



# edX

- Foundation: September 2012
- Co-founders MIT and Harvard, plus Berkeley and Cornell
- Teaches in many areas of study:
  - humanities, math, computer science, physics and others

# edX



- Statistics:
  - More than 400 faculty and staff teaching courses and discussing topics online
  - Course enrollment: 1million
  - More than 100,000 certificates earned by edX students
  - More than 200 courses

# Some edX Charter Members



Founder



Founder



Contributor



Contributor



Contributor



Contributor



Contributor



Contributor



# Coursera

- Foundation: 2011
- Public launch: April 2012
- Teaches in many areas of study:
  - humanities, math, computer science, physics and others

# Coursera



- Statistics:
  - More than 80 institutions listed
  - More than 4 million students
  - About 400 courses

# Some Coursera Partners



Universidade da  
Colúmbia Britânica



Universidade da  
Austrália Ocidental



Universidade Chinesa  
de Hong Kong



Instituto de Física e  
Tecnologia de  
Moscou



Universidade da  
Carolina do Norte em  
Chapel Hill



National Geographic  
Society - Sociedade  
Geográfica Nacional



Universidade Johns  
Hopkins



Faculdade Berklee de  
Música



Universidade  
Weslevan



Caltech - Instituto de  
Tecnoloaia da



Universidade Brown



Banco Mundial



Universidade de Tel  
Aviv



Universidade de  
Edimburgo



Universidade de  
Amsterdã



Universidade do  
Estado de Ohio



Universidade de  
Melbourne



Technische  
Universität München



Escola Normal  
Superior de Paris



Escola Politécnica  
Federal de Lausana



Universidade de  
Manchester



Universidade de  
Copenhague



Universidade de  
Princeton



Universidade  
Tecnológica de  
Nanyang, Singapura