TED演讲者: Enric Sala | 安瑞克沙拉

演讲标题: Let's turn the high seas into the world's largest nature reserve | 我们来把公海转变为世界上最大的自然保护区

内容概要: What if we could save the fishing industry and protect the ocean at the same time? Marine ecologist Enric Sala shares his bold plan to safeguard the high seas -- some of the last wild places on earth, which fall outside the jurisdiction of any single country -- by creating a giant marine reserve that covers two-thirds of the world's ocean. By protecting the high seas, Sala believes we will restore the ecological, economic and social benefits of the ocean. "When we can align economic needs with conservation, miracles can happen," Sala says.

如果我们能够拯救捕鱼業,同时又能保护海洋会怎样?海洋生态学家安瑞克沙拉分享了他大胆的公海捍卫计画——公海是地球上最后的野生地区,在任何国家的辖区之外——他想要建立一个巨大的海洋保护区,涵盖全世界海洋的三分之二。沙拉相信,透过保护公海,我们将能恢复海洋的生态、经济、和社会利益。「当我们能让经济需求与保育配合,奇迹就会发生。」

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If you were to jump into any random spot in the ocean, you	如果你要跳入海洋中 一個隨機選擇的地點, 你可能	
would probably see something like this.	會看到這樣的景象。[00:13]	
Empty of large animals.	沒有大型動物。[00:20]	
Because we have taken them out of the water faster than the		
can reproduce.	殖速度還快。[00:23]	
Today I want to propose a strategy to save ocean life, and th		
solution has a lot to do with economics.	解決方案和經濟 有密切的相關性。[00:29]	
In 1999, a little place called Cabo Pulmo in Mexico was an	1999 年,墨西哥 一個叫普爾莫角的小地方 是水底	
underwater desert.	的沙漠。[00:36]	
The fishermen were so upset not having enough fish to catc		
that they did something that no one expected.	預期到的事。[00:42]	
Instead of spending more time at sea, trying to catch the few		
fish left, they stopped fishing completely.	魚, 他們反而完全停止捕魚。[00:49]	
They created a national park in the sea.	他們在海上建立了一個國家公園。[00:57]	
A no-take marine reserve .	一個不可捕魚的海洋保護區。[01:00] 十年後,我們再返回時,看到了這樣的景象。[01:03]	
When we returned, 10 years later, this is what we saw.	本來的水底荒漠,現在成了生命和色彩的萬花筒。	
What had been an underwater barren was now a	平然的小陆元/吴, 现住成了生命和巴杉的禺化同。 [01:09]	
kaleidoscope of life and color. Cabo: n.(烟草)叶柄 Pulmo: n.表示 "肺" underwater: adj.在水中的;水		
船(fisherman的复数形式) reserve: n.储备,储存;自然保护区;预备队;缄默;[
kaleidoscope: n.万花筒;千变万化	业型证明田亚/▼C旧田/I水田/IX=2/▼CJXCJ	
We saw it back to pristine in only 10 years.	我們看到它在僅僅 十年間就回到原貌。[01:16]	
Including the return of the large predators , like the	連大型捕食動物都回來了, 像是石斑魚、鯊魚、鰺	
groupers, the sharks, the jacks.	科魚,[01:20]	
And those visionary fishermen are making much more	還有那些有遠見的漁夫。 現在從觀光賺的錢更多	
money now, from tourism.	了。[01:26]	
Now, when we can align economic needs with conservation ,	當我們能讓經濟需求與保育配合, 奇蹟就會發生。	
miracles can happen.	[01:33]	
And we have seen similar recoveries all over the world.	在全世界,我們都看過 類似的恢復狀況。[01:40]	
I spent 20 years studying human impacts in the ocean.	我花了二十年研究 人類對海洋的影響。[01:44]	
But when I saw firsthand the regeneration of places like	但當我親眼看到 像普爾莫角這類地方的重生, 我找	
Cabo Pulmo, that gave me hope.	到了希望。[01:50]	
So I decided to quit my job as a university professor to	所以我決定辭去大學教授的工作, 把我的人生投入	
dedicate my life to save more ocean places like this.	拯救 更多像這樣的海洋地區。[01:58]	
pristine: adj.原始的,古时的;纯朴的 predators: [动]捕食者/[动]食肉动物(predator的复数) groupers: n.石斑鱼类		
(grouper的复数) jacks: n.抓子游戏;家伙;小伙子(jack的复数)/v.抬起;提醒		
空想家;梦想者;有眼力的人 align: vt.使结盟;使成一行;匹配/vi.排列;排成一		
recoveries: n.恢复;追回款;补偿(recovery的复数) impacts: n.影响(impa		
(impact的三单形式) firsthand: adj.直接的;直接采购的;直接得来的/adv.直接。	直接地 regeneration: n.[生物][化字][物]再生,重生;	
重建 dedicate: vt.致力;献身;题献	大河土 1 左 4 四位 1 「国空地四层 4 次 2 2 1 国际 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
In the last 10 years, our team at National Geographic Pristin	e任迥去十年,我们的 國家地理原始海洋」 團隊 採 索、調查,並記錄了海洋中一些最野生的地方, 並	
Seas has explored, surveyed and documented some of the	和政府合作,來保護這些地方。[02:08]	
wildest places left in the ocean and worked with governments to protect them.		
These are all now protected, covering a total area half the	 這些現在都受到保護了,[02:22]	
size of Canada.		
SIZE OF CUITAGA.		

	(*************************************	
(Applause) These places are the Yellowstones and the	(掌聲) 這些地方是海洋的 黃石公園和塞倫蓋	
Serengetis of the sea.	提。[02:27]	
These are places where you jump in the water and are	在這些地方,當你跳入水中,就會馬上被鯊魚圍繞。	
immediately surrounded by sharks.	[02:39]	
(Laughter) And this is good, because the sharks are a good	(笑聲) 這是好現象, 因為鯊魚是很好的指標, 表	
indicator of the health of the ecosystem.	示生態系統很健康。[02:44]	
These places are time machines that take us to the ocean of	這些地方是時光機,帶我們回到一千年前的海洋。	
1,000 years ago.	[02:52]	
But they also show us what the future ocean could be like.	但它們也讓我們看到,未來的海洋可能是什麼樣	
Passures the assess has extraordinary regenerative newer was	子。[02:58]	
Because the ocean has extraordinary regenerative power, we	· 囚為海洋有超化的新主力, 短短幾千我们就已經 有 到了了不起的恢復狀況。[03:02]	
have seen great recovery in just a few years. Geographic: adj.地理的;地理学的 surveyed: v.调查,俯视(survey的过去;		
有证明文件的 indicator: n.指示器:[试剂]指示剂:[计]指示符;压力计 ecosy		
的;更新的	stem. n.工态系统 regenerative. dag. 丹工山火土	
We just need to protect many more places at risk so they car	我們得要保護更多 面臨風險的地方. 讓它們能回復	
become wild and full of life again.	野生,再次充滿生命。[03:10]	
But today, only two percent of the ocean is fully protected	但,現今只有 2% 的海洋 能得到完整的保護, 不受	
from fishing and other activities.	捕魚和其他活動影響。[03:17]	
And that's not enough.	那並不足夠。[03:25]	
Studies suggest that we need at least 30 percent of the	研究指出,我們至少要有30%的海洋受到保護,這	
ocean under protection not just to save marine life, but to	樣不僅能拯救海洋生命, 也能拯救我們。[03:28]	
save us, too.		
Because the ocean gives us more than half of the oxygen we	因為我們呼吸的氧氣和食物 有一半以上都來自海	
breathe, food, it absorbs much of the carbon pollution that	洋,海洋吸收了大氣中大量 由我們造製的碳污染。	
we throw in the atmosphere.	[03:36]	
We need a healthy ocean to survive.	要有健康的海洋,我們才能生存。[03:46]	
Now, is there a way to accelerate ocean protection?	有什麼方式可以加速海洋保護嗎? [03:50]	
I think so.	我認為有。[03:55]	
And it involves us looking at the high seas.	這個方法需要我們去研究公海。[03:56]	
Now, what are the high seas?	什麼是公海? [04:00]	
Now coastal countries have authority over 200 nautical	沿岸國家擁有海岸起算 兩百海浬範圍内的主權。	
miles from shore.	[04:02]	
Everything beyond those areas are called the high seas.	在那之外的區域就叫做公海。[04:09]	
absorbs: v.吸收;吸引的注意(absorb的第三人称单数形式) coastal: adj.	沿海的;海岸的 authority: n.权威;权力;当局	
nautical: adj.航海的,海上的;船员的		
In dark blue on this map.	在這張地圖上用深藍色標示。[04:12]	
No country owns the high seas, no country is responsible for	公海小屬於仕們國家,也沒有仕們國家安為公海貝	
them, but they all are, so it's a little like the Wild West.	責,但公海有一點像是蠻荒的美國西部。[04:15]	
And there are two main types of fishing in the high seas.	在公海,有兩種主要的捕魚方式。[04:23]	
At the bottom and near the surface.	在海底和在海面。[04:26]	
Bottom trawling is the most destructive practice in the	海底拖網捕魚是世界上 最具破壞性的做法。 [04:29]	
world.		
Super trawlers , the largest fishing vessels in the ocean, have nets so large that they can hold a dozen 747 jets.	可以網住 12 台 747 噴射機。[04:34]	
These huge nets destroy everything in their paths	這些大型魚網會把它們 經過的地方都摧毀—— 包	
including deep corals that grow on sea mounds , which can		
be thousands of years old.	[04:46]	
And fishing near the surface targets mostly species that	海面的捕魚,目標是在公海和國家領海之間遷徒的	
migrate between the high seas and country's waters, like	物種,比如鮪魚和鯊魚。[04:57]	
tuna and sharks.		
And many of these species are threatened because of too	這些物種當中有許多 都因為過度捕撈和不良管理	
much fishing and bad management.	而受到威脅。[05:05]	
trawling: n.拖网作业/v.用拖网捕鱼;搜罗(trawl的ing形式) destructive: a	adj.破坏的;毁灭性的;有害的,消极的 trawlers:	
n.拖网渔船;拖网捕鱼的人 vessels: n.血管(vessel的复数);船舶;容器 corals: n.[无脊椎]珊瑚(coral的复数) grow on: 加深影		
响;引起爱好 mounds: 土丘/[建]土堆 migrate: vi.移动;随季节而移居;		
Now, who fishes in the high seas?	那麼誰會在公海捕魚? [05:10]	
Until now, it was difficult to know exactly, because countries		
have been very secretive about the long-distance fishing.	魚 都是保密到家。[05:14]	
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But now, satellite technology allows us to track individual	但現在,衛星技術 讓我們能夠追蹤個別船隻。	
boats.	[05:22]	
This is a game-changer.	這改變了遊戲規則。[05:28]	

And this is the first time we are presenting the data that you	這是第一次,我們把接下來各位 將會看到的資料公
are going to see.	開呈現。[05:31]
I'm going to show you the tracks of two boats over the	我等下要讓各位看的是,在一年間兩艘船的軌跡,
course of a year, using a satellite automated identification	用的是衛星自動化辨識系統。[05:36]
system. This is a long-liner, fishing around the southern coast of	這是一艘延繩漁船,沿著非洲南海岸捕魚。[05:46]
Africa.	
After a few months fishing there, the boat goes to Japan to resupply , and shortly after, here it is, fishing around	在那裡捕魚了幾個月之後,這艘船到日本去做再補給,沒多久,在這裡,到馬達加斯加捕魚。[05:51]
Madagascar. This is a Pussian traveler fishing, probably for each in Pussian	這是一艘俄國拖網漁船,可能是在捕鱈魚,這是俄
This is a Russian trawler fishing, probably, for cod, in Russian waters, and then across the high seas of the north Atlantic.	國水域,接著橫越了北大西洋的公海。[06:00]
fishes: n.鱼类(fish的复数)/v.捕鱼;间接探听;搜寻(fish的三单形式) secretion	
distance: adj.[通信][交]长途的;长距离的/vt.打长途电话给/adv.通过长途电	
automated: adj.自动化的;机械化的/v.自动化(automate的过去分词);	自动操作 resupply: vt.再补给;再供应/vi.再补给;再
供应 Thanks to Clabal Fishing Watsh we have been able to track	有了 Global Fishing Watch, (全球捕魚監看網
Thanks to Global Fishing Watch, we have been able to track over 3,600 boats from more than 20 countries, fishing in the	站) 我們能夠追蹤來自 超過 20 個不同國家, 在公
high seas.	海上捕魚的至少 3600 艘船。[06:10]
They use satellite positioning and machine-learning	他們用衛星定位及機器學習技術, 自動辨識出一艘
technology to automatically identify if a boat is just sailing	船 是在航行或是在捕魚, 就是這裡的白點。[06:21]
or fishing, which are the white spots here.	
So with an international group of colleagues, we decided to	所以,我們和同事決定組成一個國際團體,來調查
investigate not only who fishes in the high seas, but who	誰在公海上捕魚,以及誰從中獲益。[06:32]
benefits from it. My colleague, Juan Mayorga, at the University of California,	我的同事,華安馬尤勒加,來自聖塔芭芭拉的加州大
Santa Barbara, has produced detailed maps of fishing effort,	學, 針對捕魚耗資做出了細節地圖, 耗資指的是花
which means how much time and fuel is spent fishing in	在海洋中 每一個像素内捕魚 所花的時間和燃料。
every pixel in the ocean.	[06:41]
We have a map for every country.	每個國家,我們都有一張地圖。[06:53]
China, Taiwan, Japan, Korea and Spain alone account for	光是中國、台灣、日本、韓國,和西班牙,就幾乎
almost 80 percent of the fishing in the high seas.	佔了公海捕魚的 80%。[06:56]
When we put all of the countries together, this is what we get.	當我們把所有這些國家加在一起,就得到這個。[07:04]
positioning: n.[计]定位;配置,布置/v.[计]定位(position的现在分词);放置 I	
adv.自动地;机械地;无意识地/adj.不经思索的 sailing: n.航行,航海;启航;航	The state of the s
account for: 对负有责任;对做出解释;说明的原因;导致;(比例)占	
Because we know the identity of every boat in the database,	因為我們知道資料庫中 每一艘船的身份, 我們就能
we know its size, its tonnage , the power of its engines, how	知道它的大小、 噸位、引擎馬力、 有多少船員。 [07:09]
many crew are on board. With this information, we can calculate fuel costs, labor costs,	
etc.	等等。[07:21]
So for the first time, we have been able to map the costs of	所以,第一次, 我們得以在地圖上繪製出 公海的捕
fishing in the high seas.	魚成本。[07:26]
The darker the red, the higher the costs.	紅色越深,表示成本越高。[07:34]
Thanks to our colleagues at the University of British Columbia, we know how much every country is actually	有賴我們在英屬 哥倫比亞大學的同事, 我們知道每個國家的實際捕魚量。[07:37]
fishing.	四國勿印員你用杰里。[01.31]
And we know the price of the fish as it comes off the vessel.	我們也知道當魚獲 離開船的時候的價格。[07:44]
Combined with the data on effort, we have been able to map	
the revenue of fishing the high seas.	公海捕魚的收入。[07:47]
The darker the blue, the higher the revenue.	
We have costs, and we have revenue.	我們有成本,我們有收入。[07:57]
So for the first time, we have been able to map the	所以第一次,我們能夠在地圖上繪製出在公海上 排象的利潤 [08:00]
profitability of fishing in the high seas.	所以,第一次, 我們能夠在地圖上繪製出 在公海上 捕魚的利潤。[08:00]
Now I'm going to show you a map.	所以,第一次, 我們能夠在地圖上繪製出 在公海上 捕魚的利潤。[08:00] 現在我要展示一張地圖。[08:08]
So for the first time, we have been able to map the profitability of fishing in the high seas. Now I'm going to show you a map. identity: n.身份;同一性,一致;特性;恒等式 tonnage: n.吨位,载重量益性;利益率	所以,第一次, 我們能夠在地圖上繪製出 在公海上 捕魚的利潤。[08:00] 現在我要展示一張地圖。[08:08]
Now I'm going to show you a map. identity: n.身份;同一性,一致;特性;恒等式 tonnage: n.吨位,载重量	所以,第一次, 我們能夠在地圖上繪製出 在公海上 捕魚的利潤。[08:00] 現在我要展示一張地圖。[08:08] ;船舶总吨数,排水量 profitability: n.赢利能力;收 紅色表示在海洋的那個區域 捕魚是會損失錢的。
Now I'm going to show you a map. identity: n.身份;同一性,一致;特性;恒等式 tonnage: n.吨位,载重量益性;利益率 Red colors mean we are losing money by fishing in that part of the ocean.	所以,第一次, 我們能夠在地圖上繪製出 在公海上 捕魚的利潤。[08:00] 現在我要展示一張地圖。[08:08] ;船舶总吨数,排水量 profitability : n.赢利能力;收 紅色表示在海洋的那個區域 捕魚是會損失錢的。 [08:10]
Now I'm going to show you a map. identity: n.身份;同一性,一致;特性;恒等式 tonnage: n.吨位,载重量益性;利益率 Red colors mean we are losing money by fishing in that part of the ocean. Blue colors mean it's profitable.	所以,第一次, 我們能夠在地圖上繪製出 在公海上 捕魚的利潤。[08:00] 現在我要展示一張地圖。[08:08] 設計的場合。 設計的場合。 說的是表示在海洋的那個區域 捕魚是會損失錢的。 [08:10] 藍色表示是有利可圖。[08:16]
Now I'm going to show you a map. identity: n.身份;同一性,一致;特性;恒等式 tonnage: n.吨位,载重量益性;利益率 Red colors mean we are losing money by fishing in that part of the ocean.	所以,第一次, 我們能夠在地圖上繪製出 在公海上 捕魚的利潤。[08:00] 現在我要展示一張地圖。[08:08] ;船舶总吨数,排水量 profitability : n.赢利能力;收 紅色表示在海洋的那個區域 捕魚是會損失錢的。 [08:10]

But there are two more factors we have to take into accoun	
First, recent investigations reveal the use of forced labor, or	
slave labor, in high seas fishing. Companies use it to cut costs, to generate profits.	強迫的勞工 或是奴隸勞工。[08:28] 公司用這些人 來縮減成本,產生利潤。[08:37]
And second, every year, governments subsidize high seas	第二,每年政府會補助公海捕魚,金額超過40億美
fishing with more than four billion dollars.	元。[08:41]
Let's go back to the map of profits.	我們再回來看利潤地圖。[08:51]
If we assume fair wages, which means not slave labor, and w	
remove the subsidies from our calculation, the map turns	工, 且我們在計算時把補助給排除, 地圖就會變成
into this.	這樣。[08:52]
Fishing is truly profitable in only half of the high seas fishing grounds.) 只有任一年的公海工,拥展才是有利可뼬的。 [09:05]
profitable: adj.有利可图的;赚钱的;有益的 take into account: 考虑	
复数) subsidize: vt.资助;给与奖助金;向行贿 wages: n.[劳经]工资;报酬	(wage的复数形式)/v.开展(运动等)(wage的第三人
称单数形式) subsidies:补助金、补贴、津贴(subsidy的名词复数)	
In fact, on aggregate , subsidies are four times larger than th	e事實上,從總計來看,補助是利潤的四倍之多。 [09:12]
profits. So we have five countries doing most of the fishing in the	[09.12] 所以有五個國家 大部分的捕魚都在公海進行, 而經
high seas and the economics are dependent on huge	濟方面則大量依賴政府補助, 有些國家,則是依賴
government subsidies, and for some countries, on human	違反人權的方式。[09:20]
rights violations.	
What this economic analysis reveals, is that practically the	這項經濟分析揭示出一個狀況, 實際上整個公海補
entire high seas fishing proposition is misguided .	魚的 主張就已經被誤導了。[09:31]
What sane government would subsidize an industry	神智清楚的政府怎麼會 去補助一個產業, 如果這個產業靠的是剝削, 且從根本上就是具有摧毀性的?
anchored in exploitation and fundamentally destructive?	连来菲切定拟例,且促假中工机定兵行推致任助: [09:38]
And not so profitable, anyway.	而且還不是很能獲利。[09:46]
So, why don't we close all of the high seas to fishing?	所以,為什麼我們不停止 所有的公海捕魚? [09:49]
Let's create a giant high seas reserve, two-thirds of the	我們來建立一個巨大海洋保護區, 佔海洋比例的三
ocean.	分之二。[09:56]
A modeling study from	一篇建模的研究——[10:03]
	取入的,住入的,人门的, 11
aggregate: vi.集合;聚集;合计/vt.集合;聚集;合计/n.合计;集合体;总计/adj	
靠 violations: n.违反,妨碍;违规或不雅行为(violation的复数形式) pract	cally: adv.实际地;几乎;事实上 misguided:
	ically: adv.实际地;几乎;事实上 misguided: [临床]神志正常的 anchored: adj.固定的;抛锚的/v.
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security.	[11:21]	
So how are we going to do it?	那麼,我們要如何做? [11:27]	
How are we going to protect the high seas?	我們要如何保護公海? [11:29]	
As we speak, negotiators at the United Nations are	就在這個時候,聯合國的談判專家 已經開始討論關	
beginning discussions on a new agreement to do just that.	於 保護公海的新協議。[11:31]	
But this cannot happen behind closed doors.	但關起門來是不可能讓它實現的。[11:38]	
This is our greatest opportunity.		
And we all should ensure that our countries will support the	我們都應該要確保 我們的國家會支持對公海的保	
protection of the high seas and get rid of subsidies to	護,不要再對工業捕魚提供補助。[11:44]	
industrial fishing.		
In 2016, 24 countries and the European Union agreed to	2016 年,24 個國家以及歐盟 同意要保護羅斯海,	
protect the Ross Sea, the wildest places in Antarctica, full of	那是南極洲最野生的地方, 充滿了野生動物, 像是	
wildlife like killer whales, leopard seals, penguins.	逆戟鯨、豹海豹、企鵝。[11:55]	
And this included fishing nations, like China, Japan, Spain,	這些國家還包含了捕魚國家, 如中國、日本、西班	
Russia.	牙、俄國。[12:10]	
upscale: adj.迎合高层次消费者的;质优价高的/vt.升高一级 sashimi: n.(E	日)生鱼片 contribute to: 有助于;捐献	
negotiators: n.谈判代表(negotiator的复数) leopard: n.豹;美洲豹		
But they decided that protecting such a unique environment		
would be worth more than exploiting it for relatively little	它的價值更高,不需為了相對少的利益來利用它。	
benefit.	[12:16]	
And this is exactly the type of cooperation and willingness to就是要靠這種合作和意願,來排除歧見,這才是我		
set aside differences that we are going to need.	們會需要的。[12:25]	
We can do it again.	我們可以再做一次。[12:32]	
If 20 years from now, our children were to jump into any	如果 20 年之後, 我們的孩子要跳入海洋中 一個隨	
random spot in the ocean, what would they see?	機選擇的地點,他們會看到什麼?[12:35]	
A barren landscape, like much of our seas today, or an	貧瘠的地景, 就像現在大部分的海洋? 或是充滿生	
abundance of life, our legacy to the future?	命的景象,我們留給未來的遺產?[12:45]	
Thank you very much.	非常謝謝。[12:53]	
(Applause) Thank you.	(掌聲) 謝謝。[12:54]	
(Applause)	(掌聲) [12:59]	
exploiting: n.利用;开拓/v.利用;开发(exploit的ing形式) willingness: n.乐意;心甘情愿;自动自发 set aside: 留出;驳回,撤		
销;不顾 legacy: n.遗赠,遗产		

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