

RFCx: the Rainforest Savior

Imagine you are standing in a rainforest.

1) 당신은 키 큰 나무들로 둘러싸여 있고, 그 중 많은 나무들이 40미터 이상이다.

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You are a hundred kilometers away from the nearest city. What do you hear? Do you think it is a quiet, peaceful place? If so, you are wrong. The rainforest is actually a very noisy place.

2) 곤충들, 새들 그리고 원숭이들이 이러한 소음에 상당한 책임이 있다.

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And sometimes there is another sound, one that does not belong in the forest at all. It is the buzz of a chainsaw. Every year some 13 million hectares of rainforest, an area about the size of England, disappears.

3) 이러한 손실은 수백만 종의 서식지를 파괴하고 밀림의 생물 다양성에 큰 영향을 끼친다.

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Also, it increases the amount of CO<sup>2</sup> in the air.

4) 열대우림의 파괴는 벌목, 농사, 채굴과 다른 인간의 활동으로 인해 유발된다.

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Among these, logging is the main reason for nature's loss.

5) 열대우림 벌목의 70~80퍼센트는 불법이라고 한다.

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6) 이 문제를 처리하기 위해, 젊은 미국인 공학자는 불법 벌목이 발생하는 순간 이를 감지하는 장치를 발명했다.

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It all started in 2011, when Topher White visited Indonesia as a volunteer. One day, he and some of the other volunteers set out from the ranger station on a walk into a protected rainforest.

7) 걷기 시작한 지 5분 만에, 그의 일행은 나무를 불법으로 베고 있던 사람들을 마주쳤다.

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The surprised loggers fled, but White was shocked.

8) 그들이 산림 관리소에 꽤 가까이 있었다는 사실에도 불구하고, 그곳에서 어떤 소리를 듣는 것은 불가능했다.

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It is because the forest was so full of other sounds.

White started thinking about ways to help. He knew that even in the jungle, far from the city, there was good cell phone service.

9) 그는 어쩌면 휴대전화 기술이 그 문제를 해결할 수 있을지 모른다고 생각했다.

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After he returned home to the U.S., in his father's garage he developed a small listening device using an old cell phone.

10) 그는 최대 3킬로미터 떨어진 곳에서 나는 전기톱 소리도 감지할 수 있도록 민감한 마이크를 휴대전화에 부착했다.

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This device would be placed high up in a tree.

11) 이것이 톱의 웅웅거리는 소리를 감지하면, 관리인의 휴대 전화에 메시지를 보낼 것이었다.

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White knew that he had to protect the cell phone so that it could survive in the hot and wet rainforest environment. His solution was to put the phone in a plastic box.

12) 휴대전화가 놓여야 할 곳에는 전기가 없었기 때문에, 장치는 스스로 전력을 공급할 수 있어야 했다.

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White attached solar panels to the cell phone. He was sure that the panels would work, even under the shade of the thick tree leaves.

White returned to Indonesia to test the device.

13) 놀랍게도, 그가 장치를 설치한 후 이틀째에, 그것은 전기톱 소리를 감지했다.

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An alert message was immediately sent to White and the forest rangers. When they approached the logging spot, the illegal loggers ran away.

White published his story on the Internet and word quickly spread.

14) 다른 나라에 사는 사람들은 White에게 연락해 그들이 그 장치를 사용할 수 있을지 문의했다.

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15) 세계 각지의 다른 사람들은 그가 더 많은 장치를 만들 수 있도록 그에게 낡은 휴대 전화를 보내기 시작했다.

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These devices, called Rainforest Connection (RFCx), are now being used in the rainforests in Africa and South America.

One RFCx can protect 300 hectares of forest. If a forest of this size is cut, 15,000 tons of CO<sup>2</sup> are released into the air.


16) 이러한 양의 이산화탄소 배출을 막는 것은 한 해 길에서 3천 대의 차를 없애는 것과 같은 효과를 갖는다.

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17) 이러한 기기들은 열대우림을 살리고 수천 대의 버려진 휴대전화에 새 삶을 제공한다.

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Thanks to Topher White and his RFCx devices, the earth is now a better place to live.



◇「콘텐츠산업 진흥법 시행령」제33조에 의한 표시

1) 제작연월일 : 2018년 04월 05일

2) 제작자 : 교육지대㈜

3) 이 콘텐츠는 「콘텐츠산업 진흥법」에 따라 최초 제작일부터 5년간 보호됩니다.

◇「콘텐츠산업 진흥법」외에도「저작권법」에 의하여 보호되는 콘텐츠의 경우, 그 콘텐츠의 전부 또는 일부를 무단으로 복제하거나 전송하는 것은 콘텐츠산업 진흥법 외에도 저작권법에 의한 법적 책임을 질 수 있습니다.

## 정답

- 1) [정답] You are surrounded by tall trees, many of which are more than 40 meters tall.
- 2) [정답] Insects, birds, and monkeys are responsible for much of this noise.
- 3) [정답] This loss destroys the habitats for millions of species and has a major effect on the jungle's biodiversity.
- 4) [정답] Destruction of the rainforest is caused by logging, farming, mining, and other human activities.
- 5) [정답] Some 70 to 80 percent of the logging in the rainforests is thought to be illegal.
- 6) [정답] To address this problem, a young American engineer has invented a simple device that detects illegal logging the moment it occurs.
- 7) [정답] After walking only five minutes, his group came upon people who were cutting down trees illegally.
- 8) [정답] Despite the fact that they were still fairly close to the ranger station, it had been impossible to hear anything from back there.
- 9) [정답] He thought that perhaps cell phone technology could solve the problem.
- 10) [정답] He attached a sensitive microphone to the cell phone so that it could detect chainsaw noise from up to three kilometers away.
- 11) [정답] When it picked up the buzz of a saw, it would send a message to a ranger's cell phone.

- 12) [정답] Since there was no electricity where the phone needed to be placed, the device had to be able to power itself.
- 13) [정답] Surprisingly, on only the second day after he installed the device, it picked up chainsaw noises.
- 14) [정답] People living in other countries contacted White and asked if they could use the device.
- 15) [정답] Others, from around the world, started sending him their old cell phones so he could build more devices.
- 16) [정답] Preventing this amount of CO<sup>2</sup> from being released has the same effect as taking 3,000 cars off the road for a year.
- 17) [정답] These devices are saving rainforests and providing new life for thousands of discarded cell phones.