PROFESSOR DES HIGGINS IMPACT JOURNEY



In 1988, Professor Des Higgins developed a computer programme called Clustal that could quickly compare sequences of genetic information.

It is now a global standard, used hundreds of times a day by scientists addressing real-world challenges. As a result, Professor Higgins' Clustal publications are among the most highly cited in the world.

INPUTS

Existing knowledge

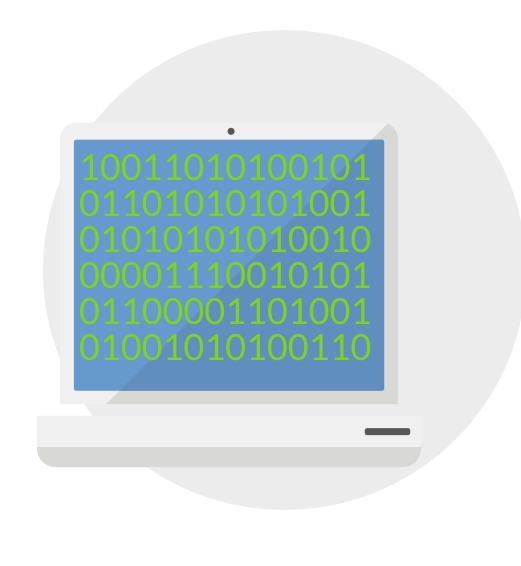
Challenge: Tired of comparing sequences of genetic information by hand



ACTIVITIES

Developing 'Clustal', a computer programme able to quickly compare large amounts of genetic information

Collaborating with other researchers on more and more powerful versions of the programme



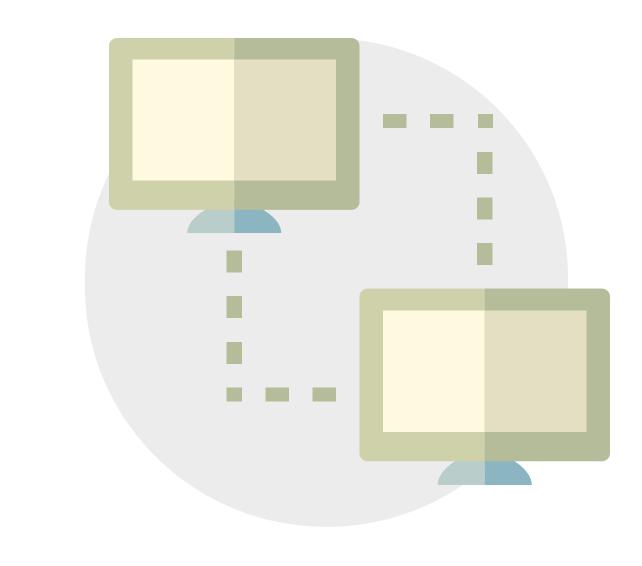
OUTPUTS

03

available to all A series of academic publications

Clustal software, made freely

describing different versions of the programme

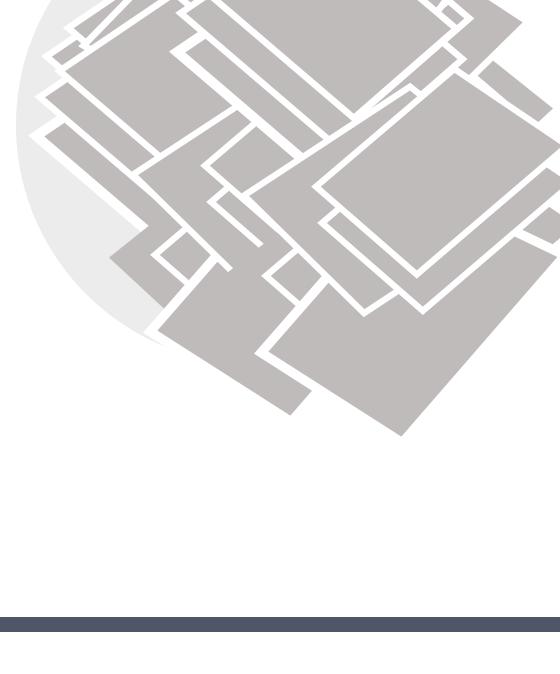


disk Over 150,000 citations, with one paper in the top ten most cited of all time

scientific community, initially on floppy

Clustal shared widely among the

Clustal hosted on large servers, like the one at the European Bioinformatics Institute



IMPACTS



Clustal is a global

standard, used

hundreds of

times a day



Clustal used to address various

real-world problems, including: Tracking

- infectious diseases
- Producing
- Creating disease-



ECONOMIC Clustal used by

vastly more efficient

Cited in over

documents

20,000 patent

05

biofuels

resistant plants