



REvolutionary Approaches and Devices for Nucleic Acid analysis

Introduction



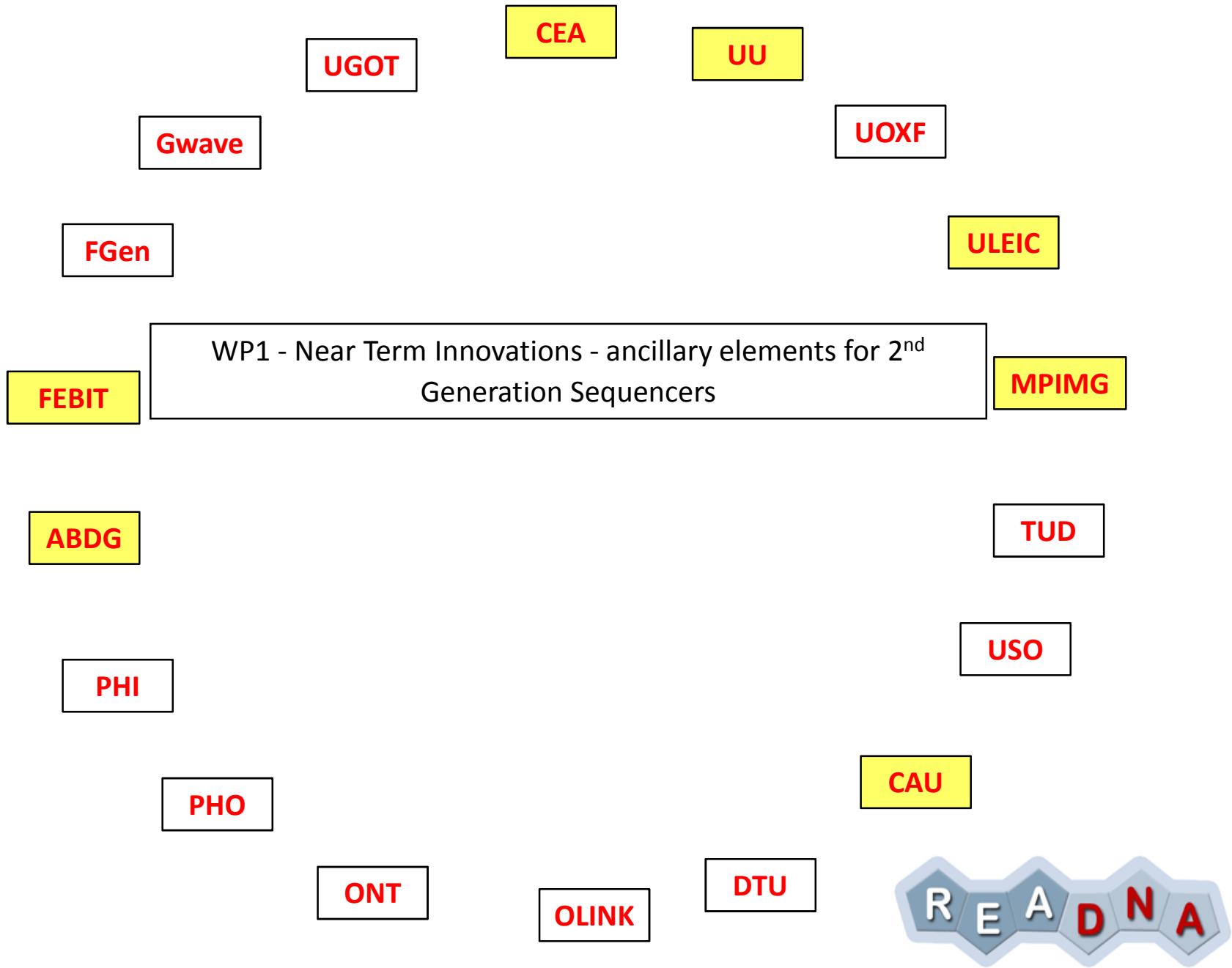
READNA

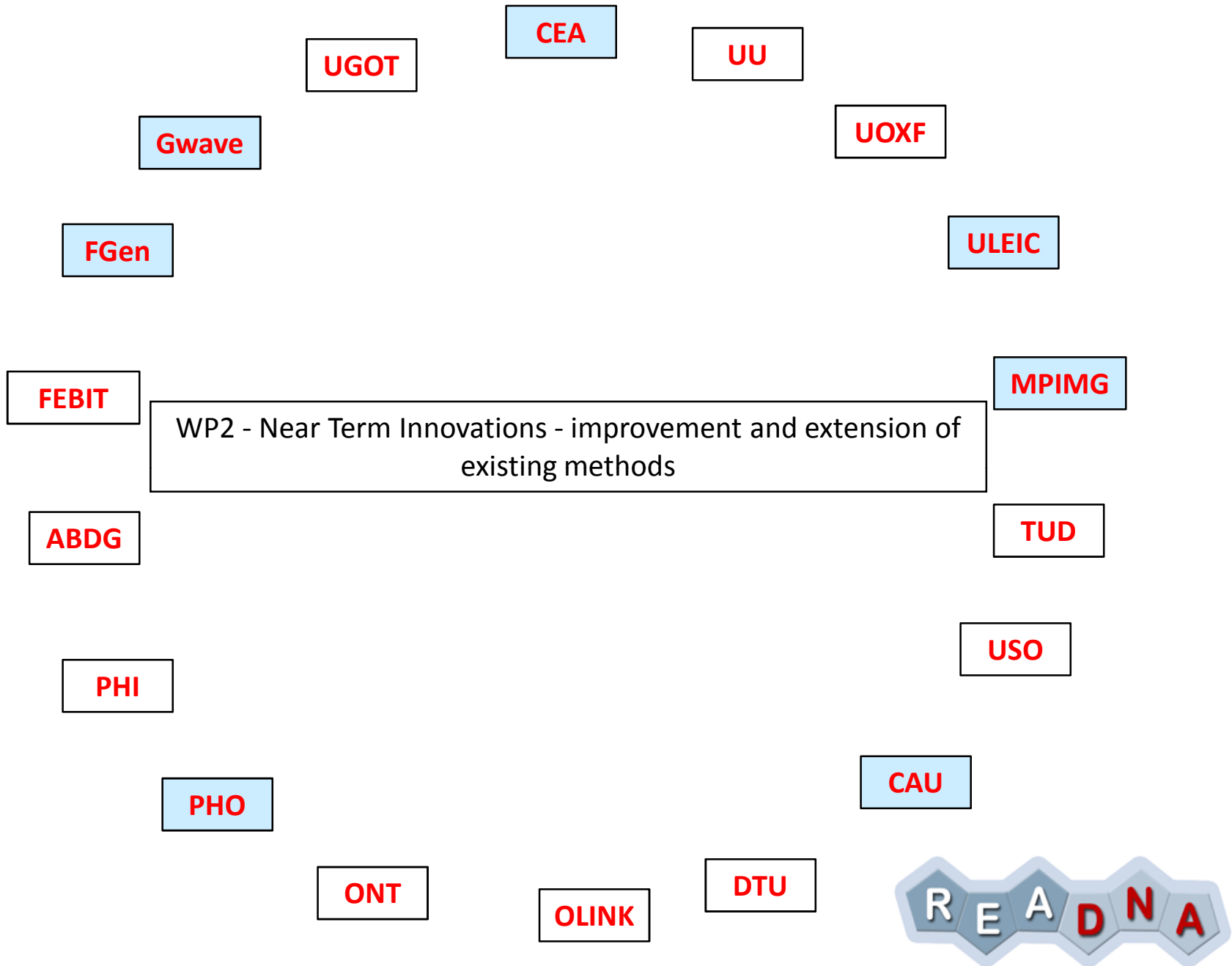
- EU FP7 Integrating Project
- 1st June 2008 - 31st May 2012
- 12 M€ EC contribution ~ 16 M€ investment
- 19 partners from academia and industry

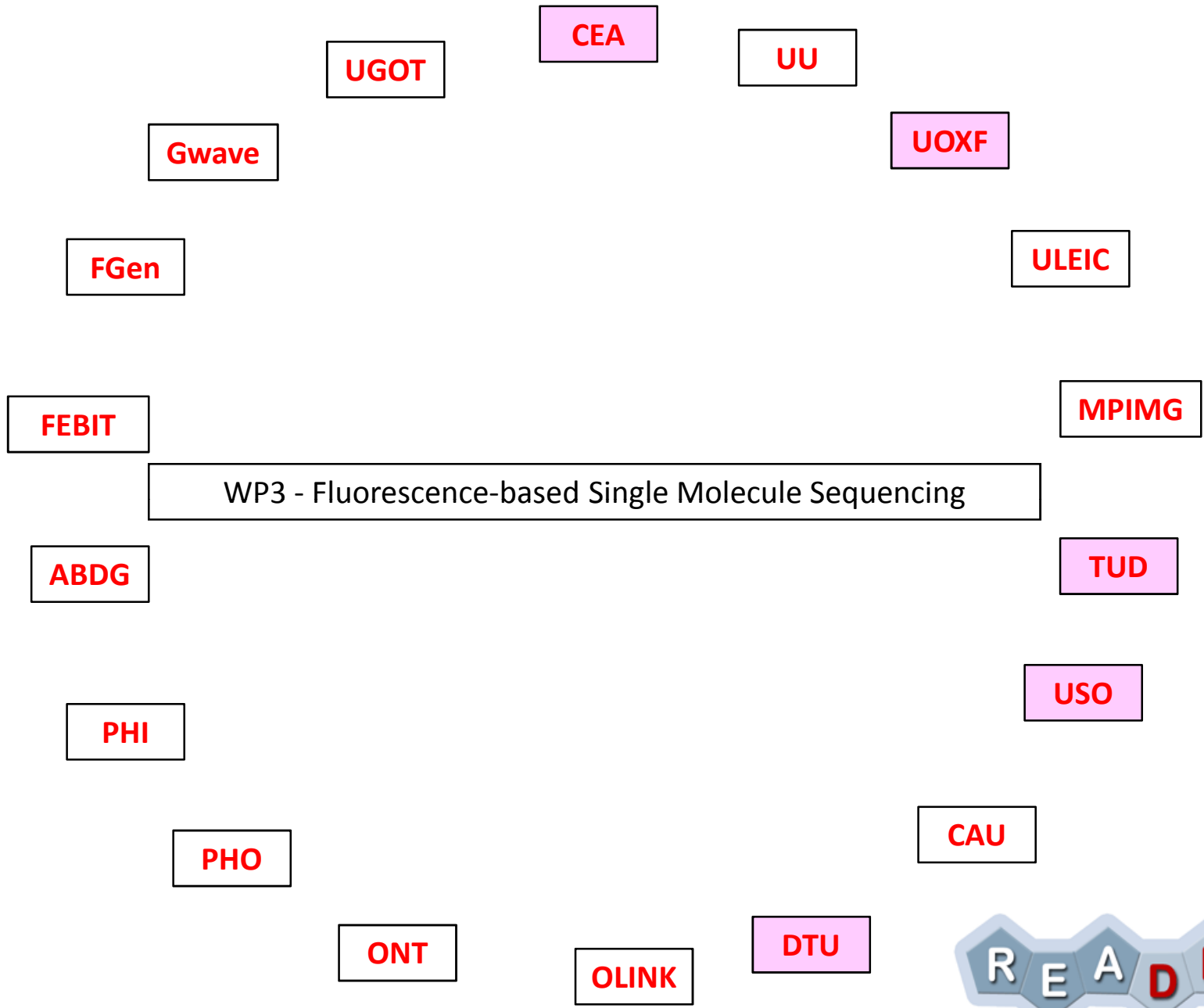
READNA Main Objectives

- Apply 1st generation DNA analysis for diagnostics
- Extend the usability of 2nd generation DNA sequencing
- Develop 3rd generation DNA sequencing technology
- Develop 4th generation nucleic acid analysis technology

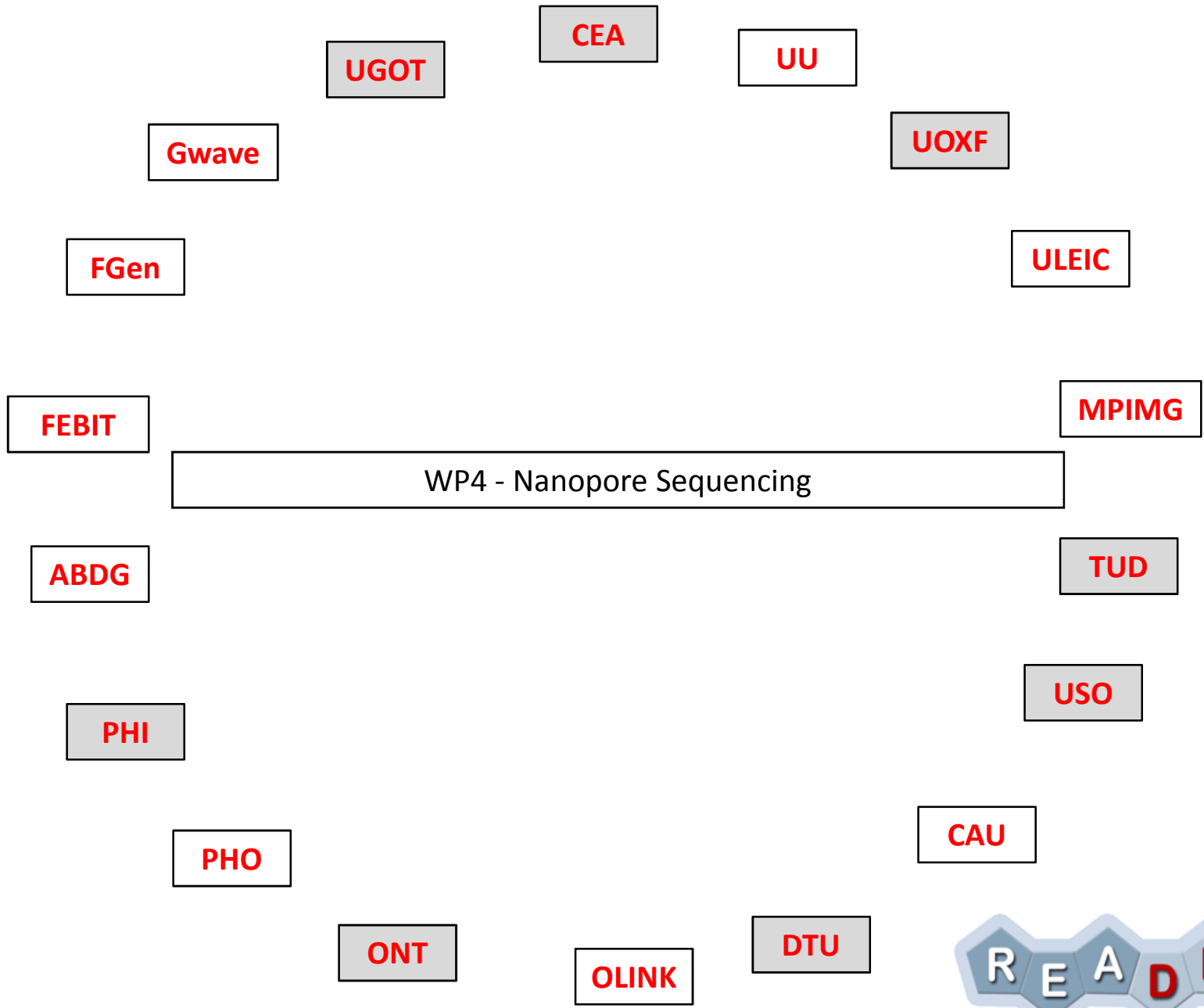


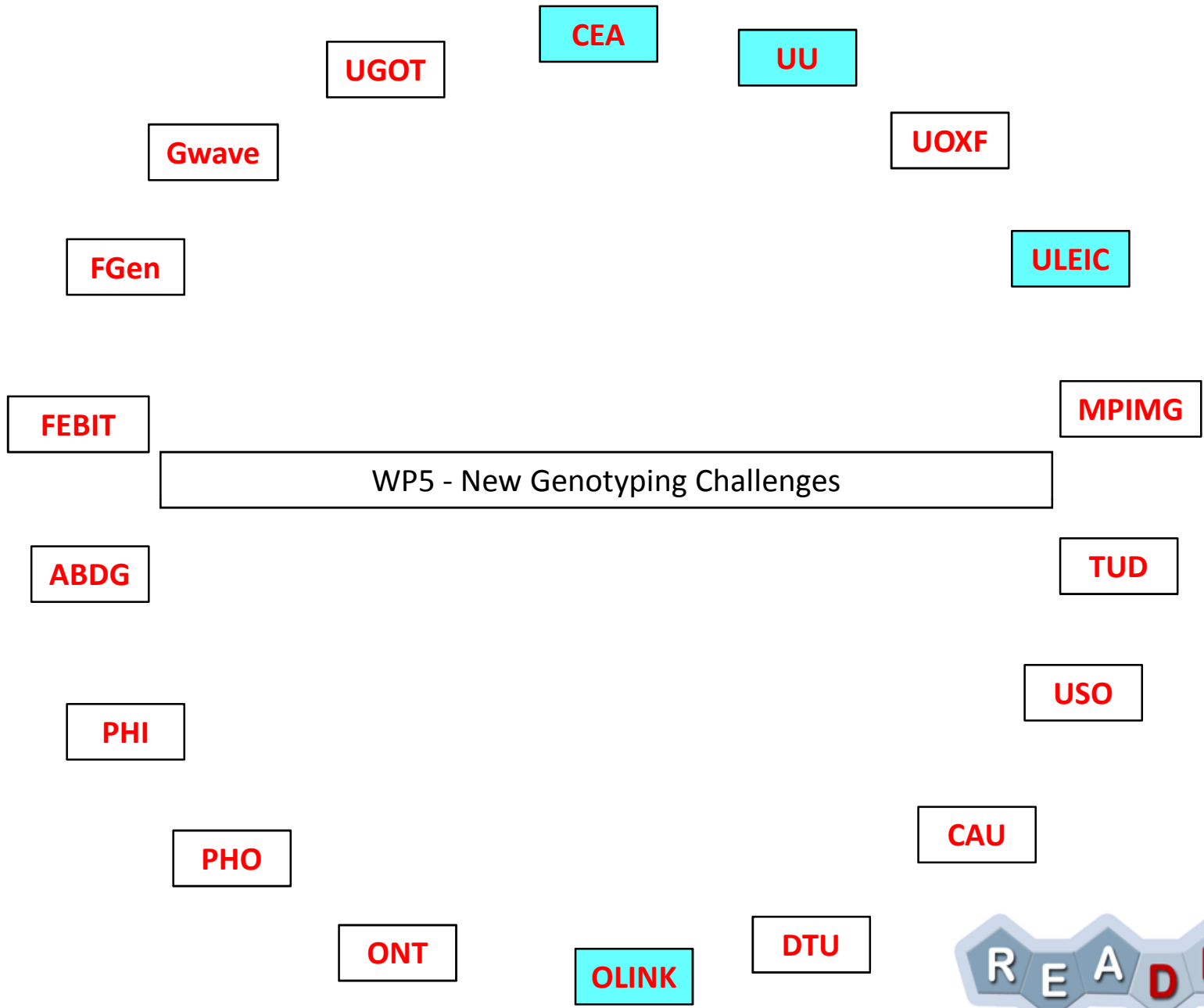


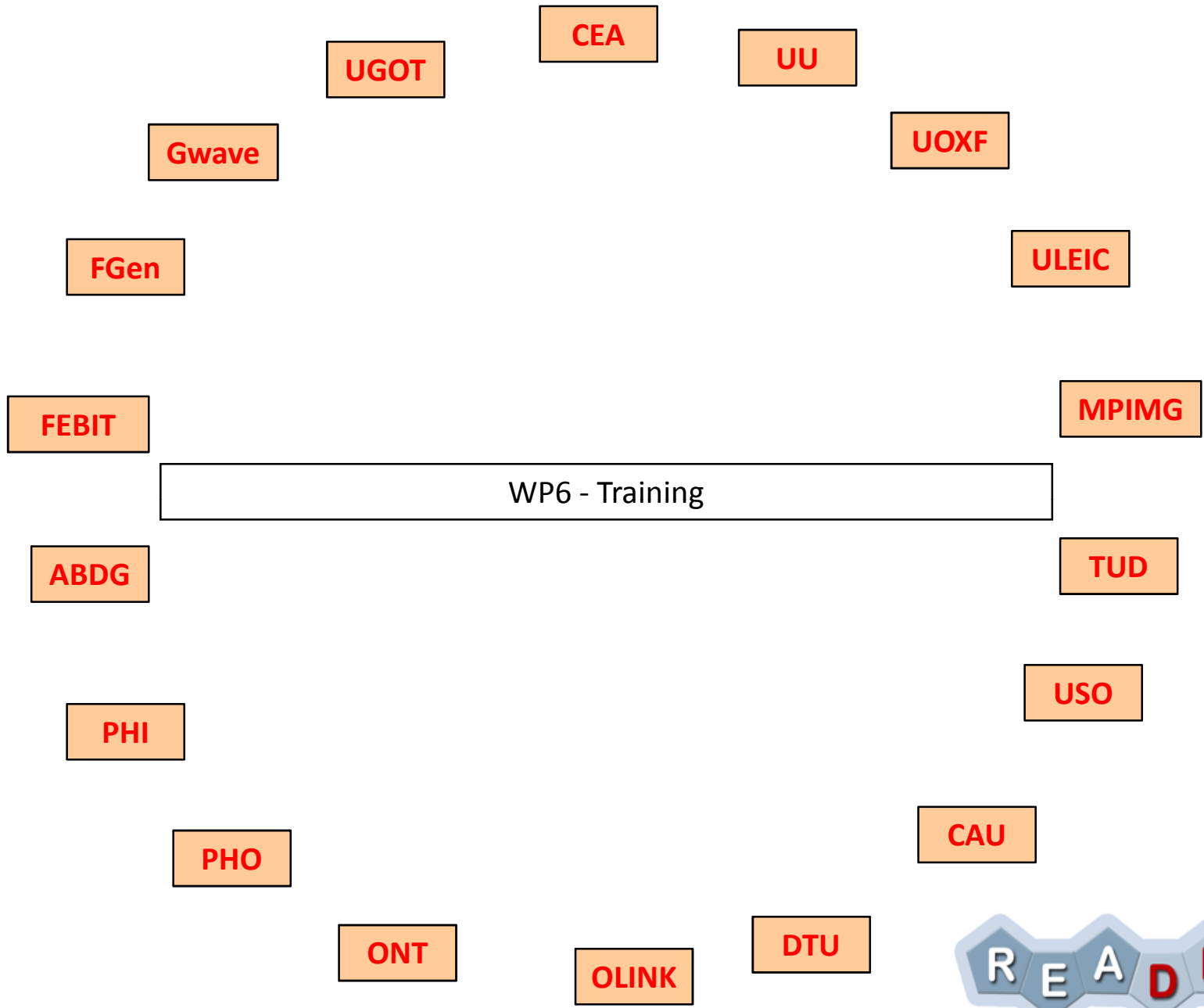


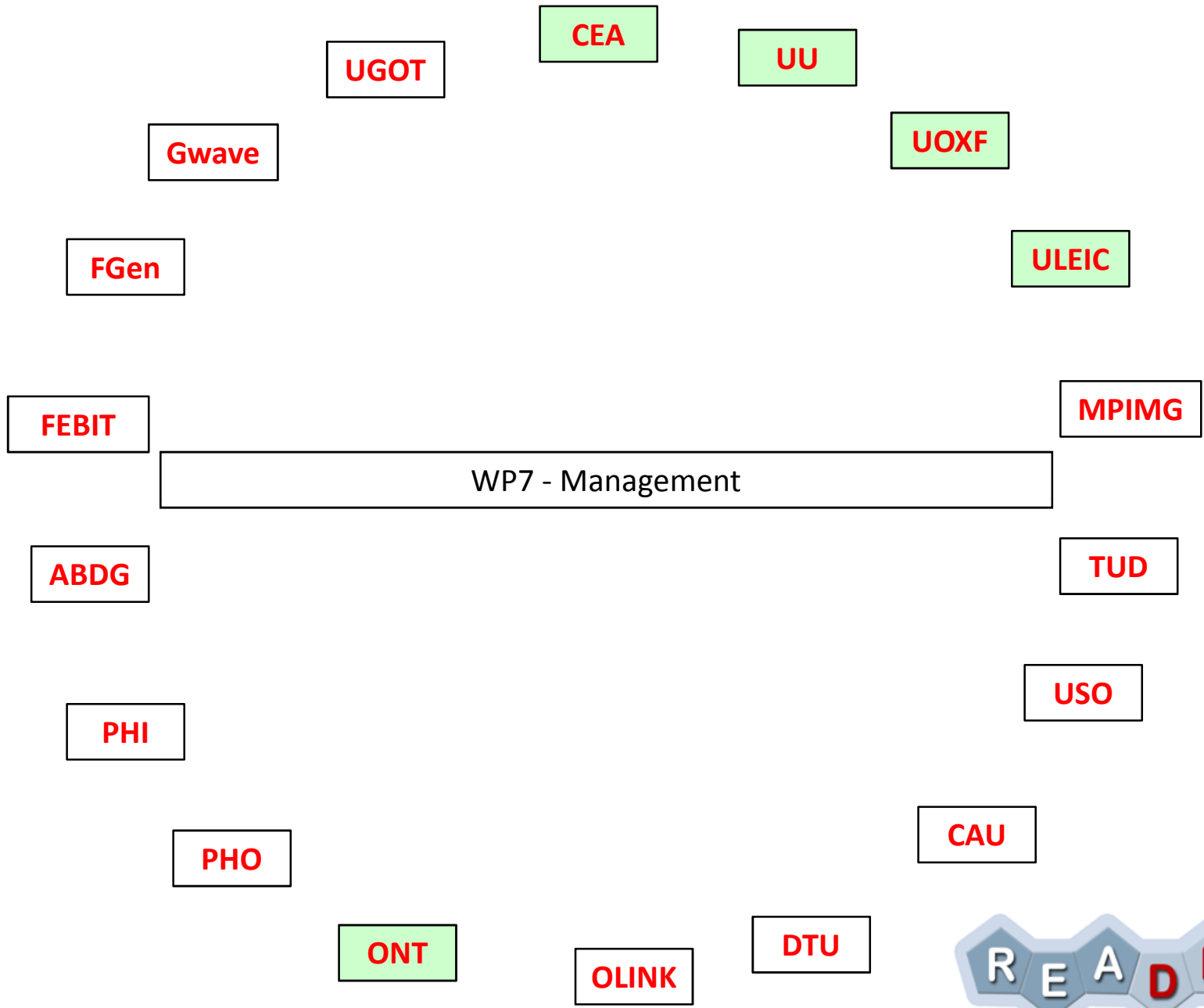


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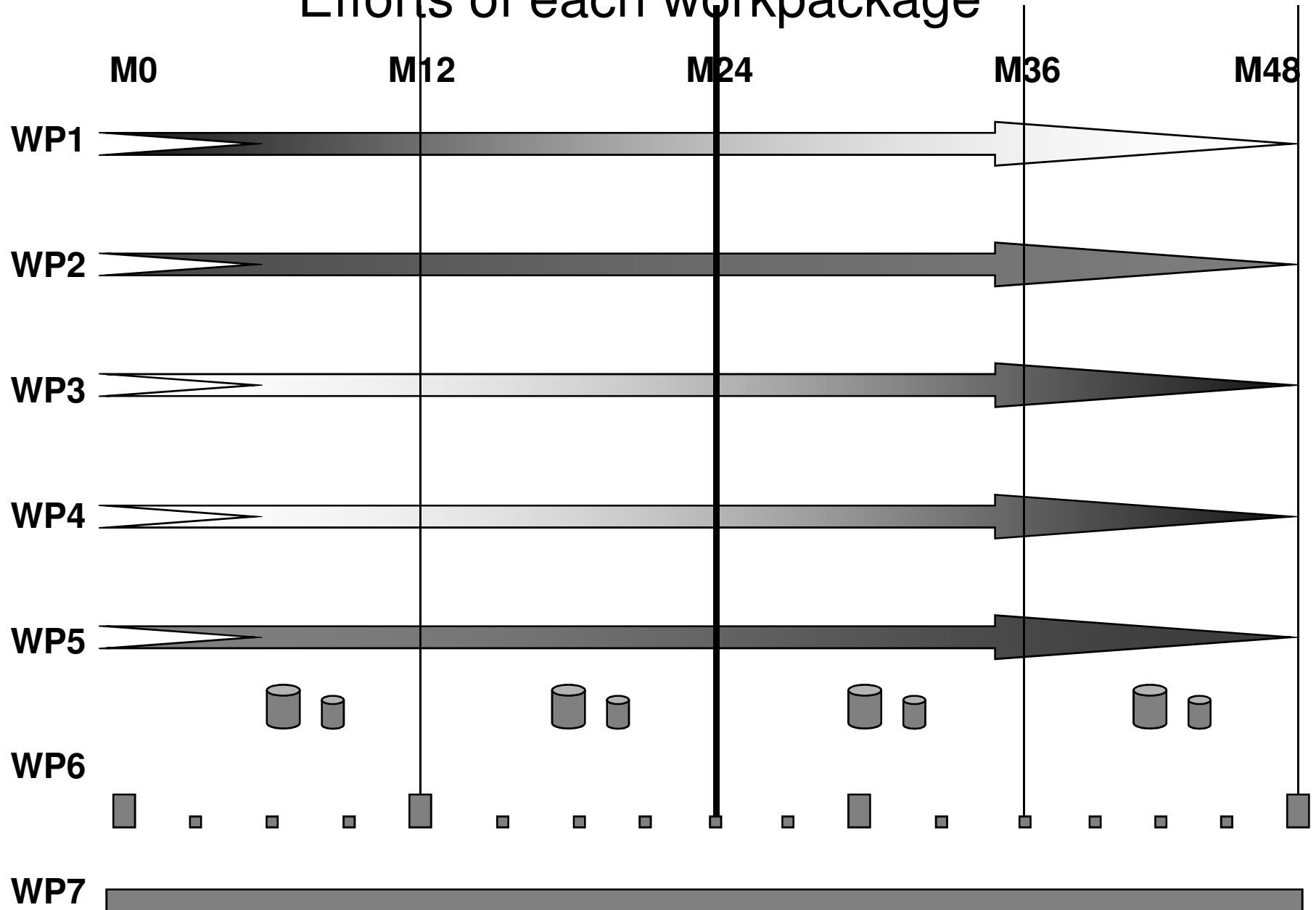








Efforts of each workpackage



Workpackage 6 - Training and Dissemination Objectives

- *Organisation of 4 Large Workshops*
- *Organisation of 4 Training Workshops*
- *Mobility Awards - 10 awards*
- *Website*
- *Publications*



Workpackage 6 - Large Workshops

- *The 3rd Paris Workshop on Genomic Epidemiology (25th - 27th of March 2009, Paris)*
- *1st READNA Symposium on advanced nucleic acid methods (6th of July 2009, Berlin)*
- *2nd READNA Symposium on advanced nucleic acid methods (8th of July 2010, Oxford)*
- *The 4th Paris Workshop on Genomic Epidemiology (30th, 31st May, 1st June 2011, Paris)*



Workpackage 6 - Training Workshops

- 1) *Workshop on Standardisation of DNA Enrichment Methods for 2nd Generation DNA Sequencers (15th/16th January 2009)*
- 2) *Workshop on Tools for DNA sequencing and resequencing in diagnostics (14th of January 2010, Berlin)*
- 3) *Workshop on Data analysis - dnGASP (5th to 7th April 2011, Barcelona)*
- 4) *Showcase workshop – Barcelona/2012*



Mobility Awards - Travel Program

Mobility Award 1 - Liqin Dong

UOXF → DTU

Mobility Award 2 - Abdou Elsharawy

CAU → UU

Mobility Award 3 - Jennifer Sengenes

CEA → UU

Mobility Award 4 - Kristian Rasmussen

DTU → UOXF

Mobility Award 5 - Kalim Mir

UXOF → DTU

Mobility Award 6 - David Bauer

UOXF → DTU

Mobility Award 7 - Nathalie Zahra

ULEIC → UU

Mobility Award 8 - Fredrik Persson and Joachim Fritsche

UGOT → UOXF



Workpackage 6 - Website

- *Home Page*
- *News/Events - Past and future meetings and Press Releases*
- *Publications - Sorted by year*
- *Meetings - Password protected section for training workshops*
- *Restricted - Password protected section*



Website – Home Page

READNA - Home Page - Mozilla Firefox

Fichier Édition Affichage Historique Marque-pages Outils ?

http://www.cng.fr/READNA/

READNA - Home Page

READNA

Home Project News / Events Publications Downloads Meetings Restricted

READNA - REVOLUTIONARY APPROACHES AND DEVICES FOR NUCLEIC ACID ANALYSIS

The **READNA** consortium includes projects to accelerate new breakthrough DNA sequencing technologies and methods to enhance existing analysis methods. The consortium includes 16 European partners from both academia and industry, and launches with a €12m grant via the European Commission's seventh Framework Programme (FP7).

Participants come from a diverse range of scientific disciplines. The interdisciplinary nature of the consortium will allow the exploration of novel concepts of nucleic acid analysis. Via the **READNA** project, results are expected to improve many aspects of patient care including the development of new personalised medical strategies and treatments. The ultimate aim will be to progress technologies enabling sequencing of an entire human genome for 1000€ in less than one day.

NEW

DNA translocation through graphene nanopores



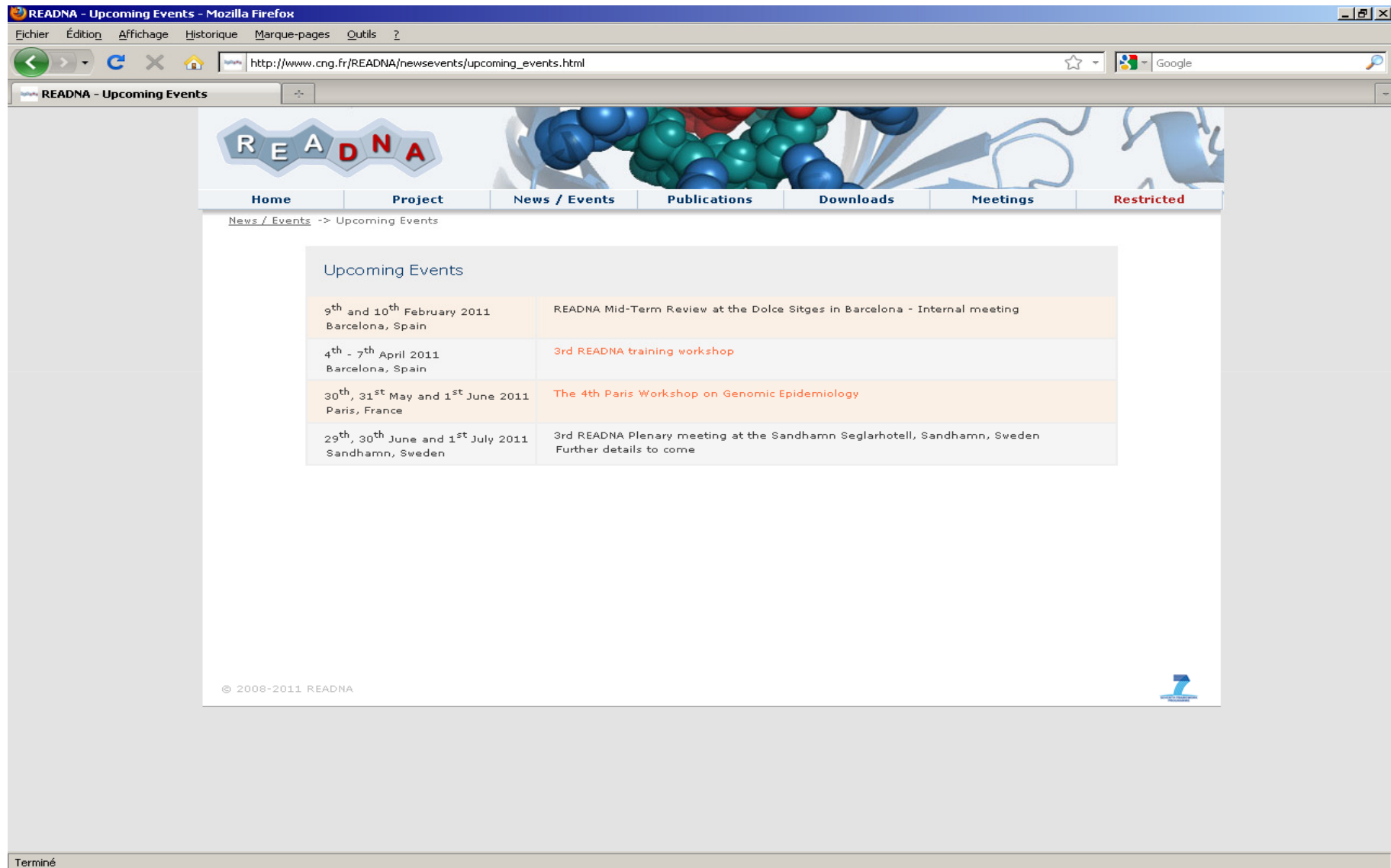
Image Courtesy of Dekker Group at Delft

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Website – Future Events



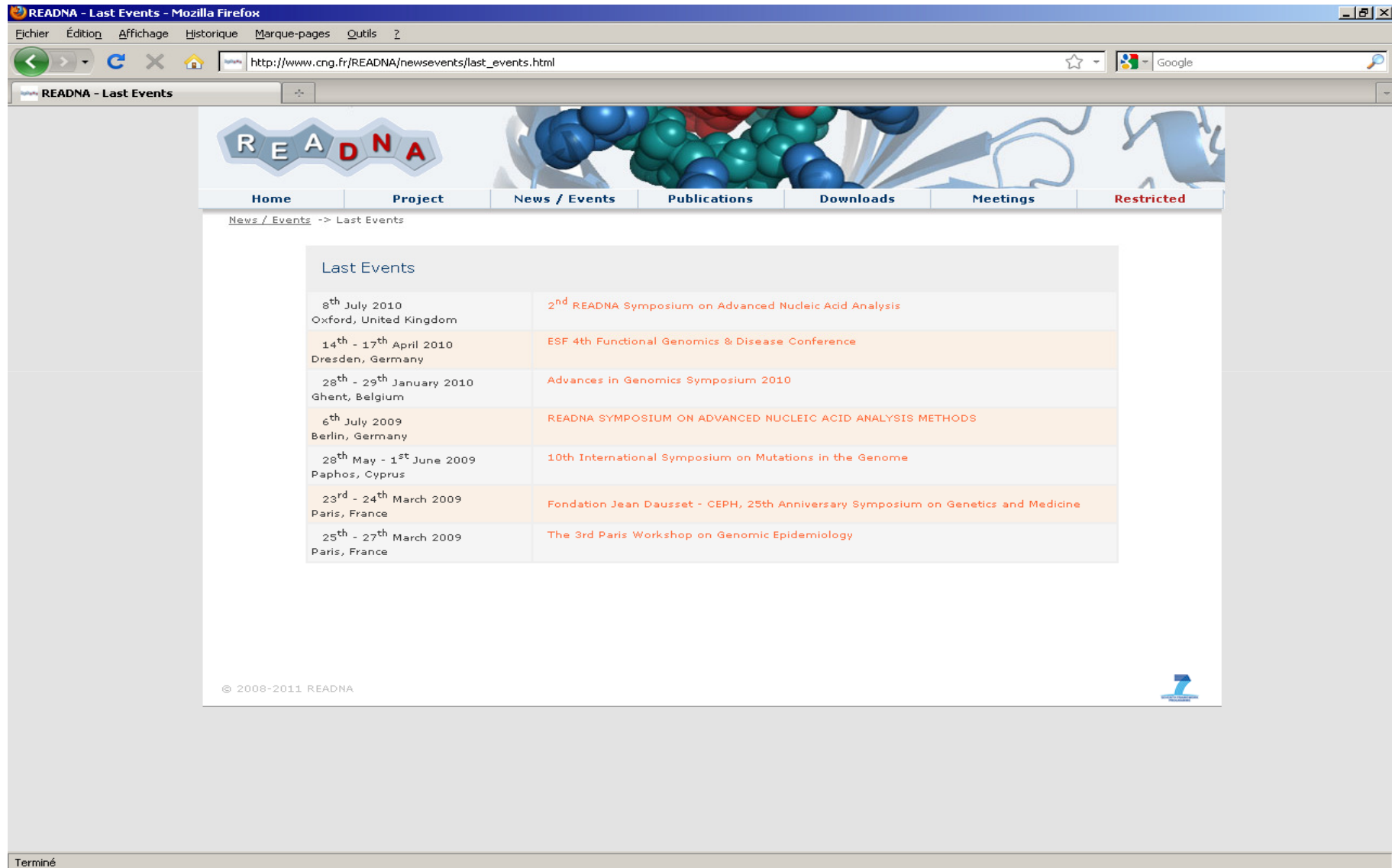
The screenshot shows a Mozilla Firefox browser window displaying the READNA website. The browser's address bar shows the URL http://www.cng.fr/READNA/newsevents/upcoming_events.html. The website features a navigation menu with links for Home, Project, News / Events, Publications, Downloads, Meetings, and Restricted. The main content area is titled "Upcoming Events" and contains a table with the following information:

Date	Event
9 th and 10 th February 2011 Barcelona, Spain	READNA Mid-Term Review at the Dolce Sitges in Barcelona - Internal meeting
4 th - 7 th April 2011 Barcelona, Spain	3rd READNA training workshop
30 th , 31 st May and 1 st June 2011 Paris, France	The 4th Paris Workshop on Genomic Epidemiology
29 th , 30 th June and 1 st July 2011 Sandhamn, Sweden	3rd READNA Plenary meeting at the Sandhamn Seglarhotell, Sandhamn, Sweden Further details to come

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Website – Past Events



The screenshot shows a Mozilla Firefox browser window displaying the READNA website. The address bar shows the URL http://www.cng.fr/READNA/newsevents/last_events.html. The website header features the READNA logo and a navigation menu with links for Home, Project, News / Events, Publications, Downloads, Meetings, and Restricted. Below the navigation menu, there is a breadcrumb trail: [News / Events](#) -> Last Events. The main content area is titled 'Last Events' and contains a table listing past events.

Last Events	
8 th July 2010 Oxford, United Kingdom	2nd READNA Symposium on Advanced Nucleic Acid Analysis
14 th - 17 th April 2010 Dresden, Germany	ESF 4th Functional Genomics & Disease Conference
28 th - 29 th January 2010 Ghent, Belgium	Advances in Genomics Symposium 2010
6 th July 2009 Berlin, Germany	READNA SYMPOSIUM ON ADVANCED NUCLEIC ACID ANALYSIS METHODS
28 th May - 1 st June 2009 Paphos, Cyprus	10th International Symposium on Mutations in the Genome
23 rd - 24 th March 2009 Paris, France	Fondation Jean Dausset - CEPH, 25th Anniversary Symposium on Genetics and Medicine
25 th - 27 th March 2009 Paris, France	The 3rd Paris Workshop on Genomic Epidemiology

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Website – Publications

The screenshot shows a Mozilla Firefox browser window displaying the READNA website. The address bar shows the URL: http://www.cng.fr/READNA/publications/publications_2009.html. The website header features the READNA logo and a navigation menu with the following items: Home, Project, News / Events, Publications, Downloads, Meetings, and Restricted. The main content area is titled "Publications 2009" and lists ten publications:

- Electrophoretic force on a protein-coated DNA molecule in a solid-state nanopore*
Hall AR, van Dorp S, Lemay SG, Dekker C.
Nano Lett. 2009 Dec;9(12):4441-5.
- Probing biomolecular structures and dynamics of single molecules using in-gel alternating-laser excitation*
Santoso Y, Kapanidis AN.
Anal Chem. 2009 Dec 1;81(23):9561-70.
- Use of high throughput sequencing to observe genome dynamics at a single cell level*
Parkhomchuk D, Amstislavskiy V, Soldatov A, Ogryzko V.
Proc Natl Acad Sci U S A. 2009 Dec 8;106(49):20830-5.
- Transcriptome analysis by strand-specific sequencing of complementary DNA*
Parkhomchuk D, Borodina T, Amstislavskiy V, Banaru M, Hallen L, Krobitsch S, Lehrach H, Soldatov A.
Nucleic Acids Res. 2009 Oct;37(18):e123.
- Sequencing Genomes: From Individuals to Populations*
Mir KU.
Brief Funct Genomic Proteomic. 2009 Sep;8(5):367-78.
- Translocation of RecA-coated double-stranded DNA through solid-state nanopores*
Smeets RM, Kowalczyk SW, Hall AR, Dekker NH, Dekker C.
Nano Lett. 2009 Sep;9(9):3089-96.
- Continuous base identification for single-molecule nanopore DNA sequencing*
Clarke J, Wu HC, Jayasinghe L, Patel A, Reid S, Bayley H.
Nat Nanotechnol. 2009 Apr;4(4):265-70.
- Phylogenetic classification and identification of bacteria by mass spectrometry.*
Freiwald A, Sauer S.
Nature Protoc. 2009;4(5):732-42.
- Synthesis and Polymerase Chain Reaction Amplification of DNA Strands Containing an Unnatural Triazole Linkage*
El-Sagheer AH, Brown T.
J Am Chem Soc. 2009 Mar 25;131(11):3958-64.
- A single molecule array for digital targeted molecular analyses*
Göransson J, Wählby C, Isaksson M, Howell WM, Jarvius J, Nilsson M.

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Website – Restricted Section

The screenshot shows a Mozilla Firefox browser window displaying the 'Restricted' section of the READNA website. The browser's address bar shows the URL <http://www.cng.fr/READNA/restricted/index.html>. The website header features the 'READNA' logo and a navigation menu with the following items: Home, Project, News / Events, Publications, Downloads, Meetings, and Restricted. The main content area is titled 'Restricted documents' and contains five horizontal buttons: Management Structure, Meetings, Administration, Reports, and Mobility Awards. At the bottom left, the copyright notice reads '© 2008-2011 READNA', and at the bottom right, there is a logo for the '75th Anniversary of the CNG'.

READNA - Restricted - Mozilla Firefox

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http://www.cng.fr/READNA/restricted/index.html

READNA - Restricted

Home Project News / Events Publications Downloads Meetings **Restricted**

Restricted documents

Management Structure

Meetings

Administration

Reports

Mobility Awards

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75th Anniversary of the CNG

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Publications

- *2008 – 1 publication acknowledging READNA*
- *2009 – 12 publications acknowledging READNA*
- *2010 – 23 publications acknowledging READNA*
- *A total of 36 publications up to the end of 2010*
- *12 publications in Nature journals !!!*
- *2011 and 2012?*



Workpackage 7 - Management

- *Organisation of annual Meetings and mid-term review*
- *Organisation of workshops and internal meetings*
- *Organisation and assembly of periodic reports*
- *Communicating with the EU and partners*
- *Day to day administration of the project*



Workpackage 7 - Management Office

- *Ivo Gut : Coordinator*
- *Steven McGinn : Manager*
- *Diana Russo : Assistant*
- *Vesna Margetic : Website*
- *Elizabeth May : Administration and Financial*



Annual Meetings

- *Kick-off July 2008 (Evry- France)*
- *1st Plenary Meeting – July 2009 (Berlin - Germany)*
- *2nd Plenary Meeting – July 2010 (Oxford – UK)*
- *3rd Plenary Meeting – July 2011 (Uppsala – Sweden)*
- *Final Meeting - 2012 (Barcelona – Spain)*

- *Mid-Term Review – February 2011 (Barcelona – Spain)*



Reporting

- *1st Periodic Report – Completed*
- *2nd Periodic Report – Completed*
- *Final Report - Due month 50 (31st of July 2012)*

- *Publishable Summaries for 1st and 2nd Periodic Reports are available on public section of the website*



Deliverables

- *A total of 100 Deliverables in the READNA Project*
- *70 have been submitted to the EU*



Coordination Committee

- *Coordination Committee (CC) involves the WP coordinators and the Project Manager*
- *Central role in organising the READNA project*
- *Meetings are held every 2 months*



READNA

