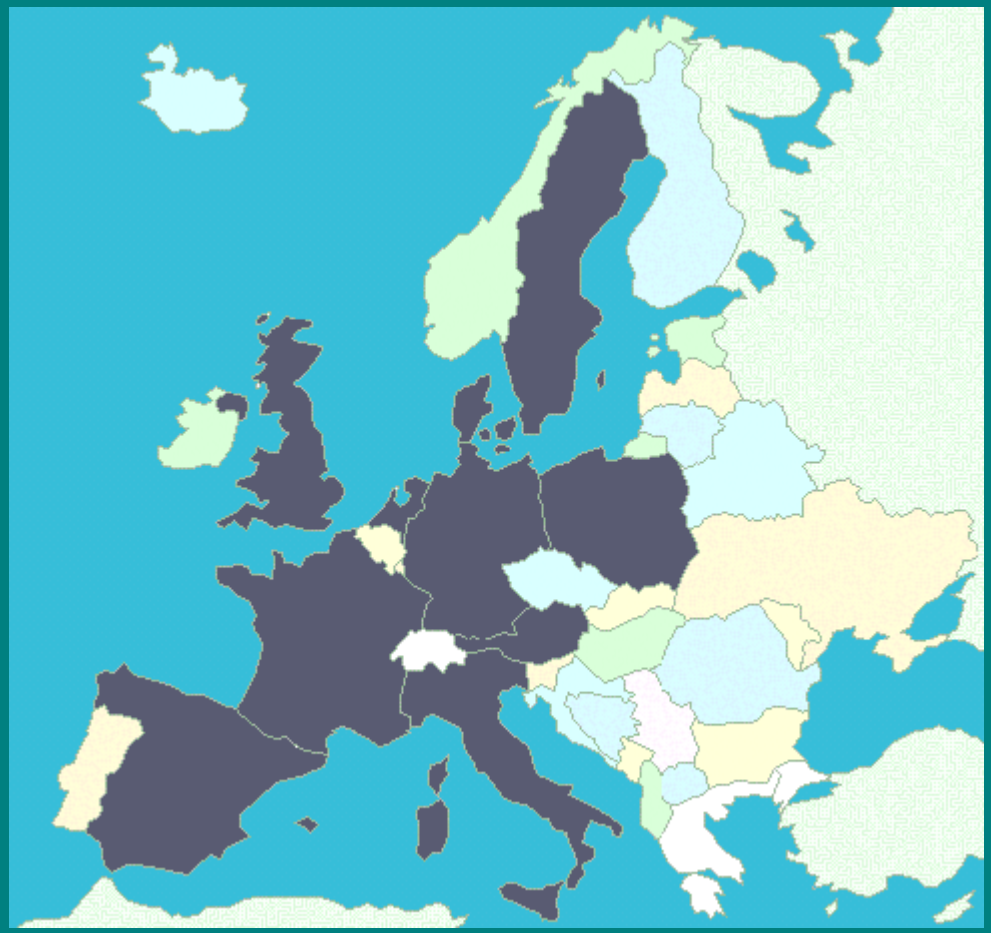
FEDALOC Meeting Agenda

- 8^{30}-8^{45} – Introduction and Welcome
- 8^{45}-10^{00} – Partner presentation and introduction (each partner 10 min.)
- 10^{00}-10^{15} – Coffee break
- 10^{15}-11^{30} – Define WP content, interaction and leadership (produce a Pert chart)
- 11^{15}-12^{00} – Set Deliverable and milestones (produce a Gantt chart)
- 12^{00}-12^{45} – Implementation issues (management, consortium, subcontracting..)
- 12^{45}-13^{00} – Concluding remarks

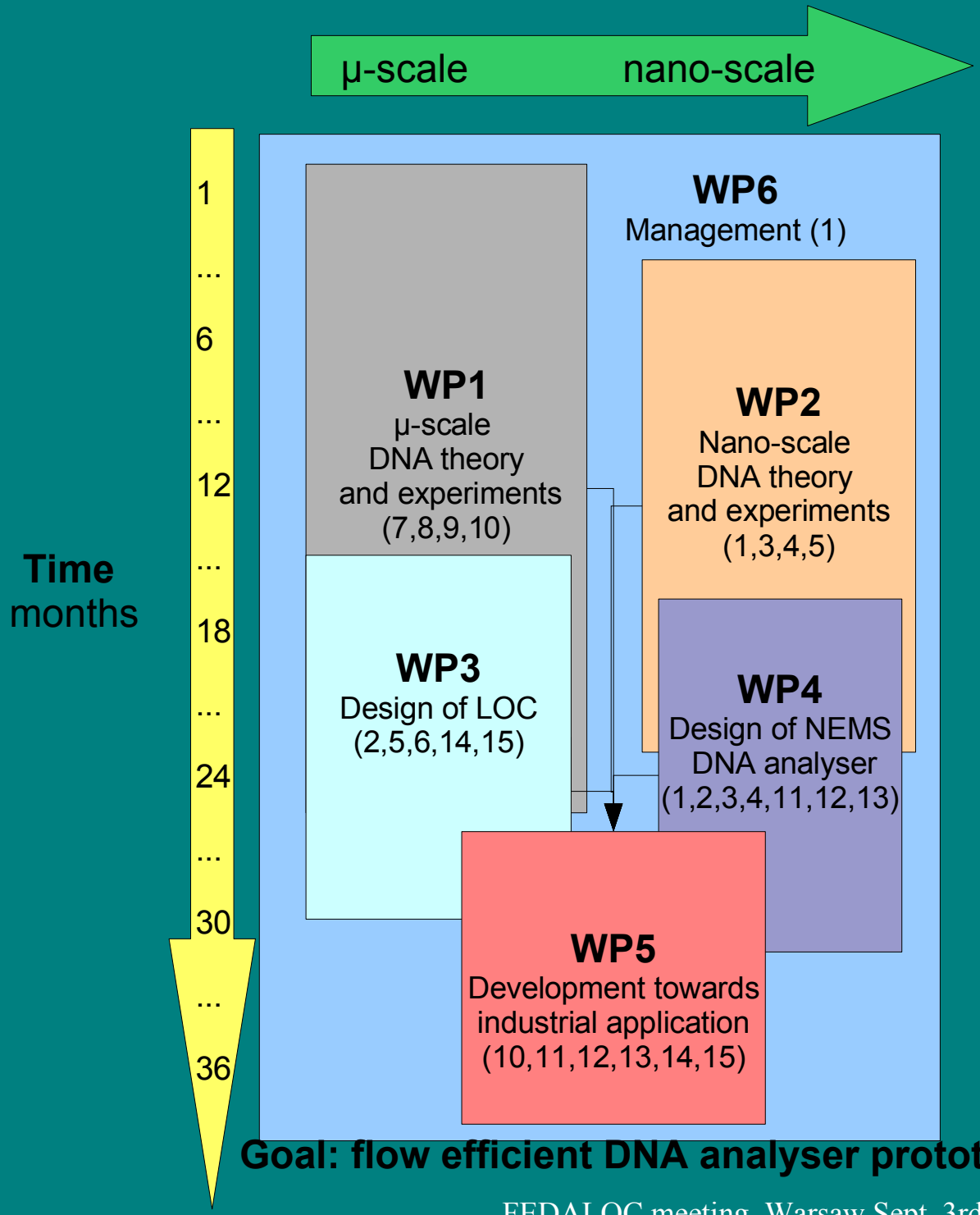


Research

1. IPPT, Poland
2. ICN, Spain
3. University of Twente, Netherlands
4. Lund University, Sweden
5. Oxford University, UK
6. ITE, Poland
7. KTH, Sweden
8. Hanover University, Germany
9. IAC, Italy

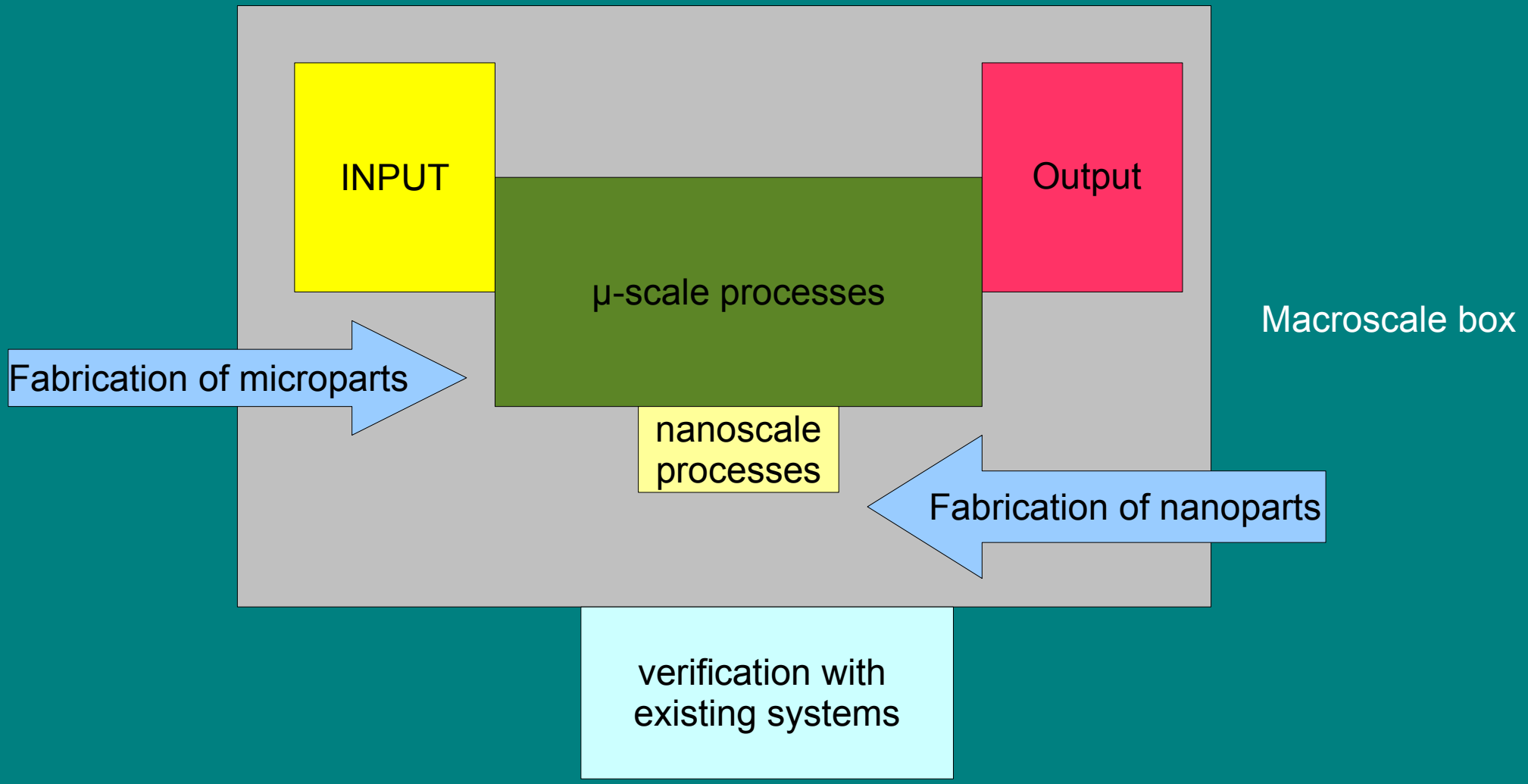
Application

10. BioVecis, Industrial Partner, Poland
11. NILT, Industrial Partner, Denmark
12. microTEC, Industrial Partner, Germany
13. LioniX BV, Industrial Partner, Netherlands
14. Profactor, Industrial Partner, Austria
15. Phylogene, Industrial Partner, France



Goal: flow efficient DNA analyser prototype

DNA Analyser



WP1: μ-scale DNA theory and experiments

Why it is needed?

validate results obtained in nano-scale

provide help with global design

Who should be main task provider?

KTH, NMP, IAC, BioVecis

What are the tasks?

1.1. On-chip DNA sample preparation (input/output)

1.2. Mesoscale modelling

1.3. Methods for validation and validation in μ-scale

WP2: Nano-scale DNA theory and experiments

Why it is needed?

development of efficient sequencing techniques

development of theory and experiments to improve sequencing and to improve validation in nanoscale

Who should be main task provider?

IPPT, MESA+, LU, OXU

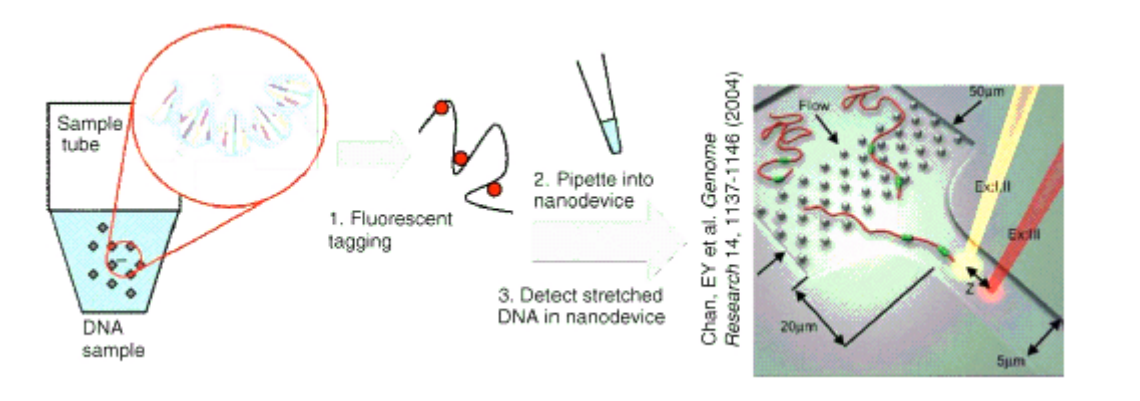
What are the tasks?

2.1. DNA-solvent-solid pore (wall) interaction models and experiments

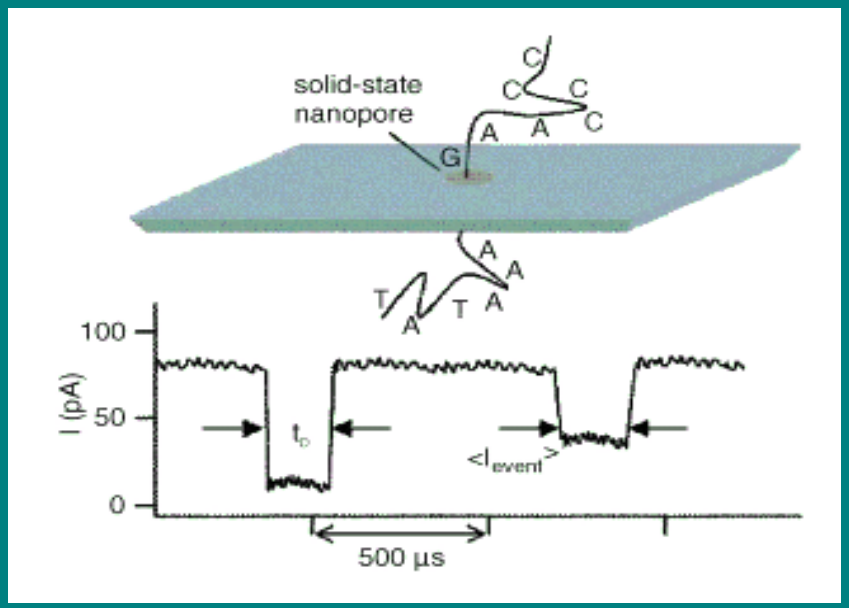
2.2. Sequencing techniques

2.3. Validation techniques

WP2: Nano-scale theory and experiments



Direct Linear Analysis



Nanopore Sequecing

WP3: Design of LOC

Why it is needed?

input and output information integration

provide help with global design – nanoscale analysis system must be integrated in larger scale system for practicality

Who should be main task provider?

ICN, ITE, OXU, PROFACTOR, PHYLOGENE

What are the tasks?

3.1. Parallelization of analysis

3.2. Efficiency of LOC system

3.3. Integration of the system

WP4: Design of NEMS DNA analyser

Why it is needed?

validate results obtained in nanoscale

provide help with global design

Who should be main task provider?

IPPT, ICN, MESA+, LU, NILT, microTEC, LioniX

What are the tasks?

4.1. DNA-nanoscale transport

4.2. Nanostructure design

4.3. Noise reduction and throughput optimization

WP5: Developments towards industrial application

Why it is needed?

the goal of the project is prototype of DNA analyser, but every company has immidate different goal

integration and disstribution of results for the industrial purpose

Who should be main task provider?

BioVecis, NILT, microTEC, LioniX,

PROFACTOR, PHYLOGENE

What are the tasks?

5.1. Development of new processes, parts and design strategies for LOC and NEMS

5.2. Prototype of the DNA analyser

WP6: Management and dissimenation

Why it is needed?

integrate research

provide information, data and results exchange

Who should be main task provider?

IPPT

What are the tasks?

6.1. Publications consolidation

6.2. Result dissimination

6.3. Workshop and conference organisation

6.4. Website and reports

Implementation issues

- Consorcium agreement
- Need for contracting
- Timeline and deadlines:

  Task decision: Sept. 7th

  Point 2.2 from all partners: Sept. 14th

  Budget: Sept. 14th

  Form A2 partners: Sept. 14th

  Final Draft proposal: Sept. 25th

  Comments: Oct. 1st

  Submission: Oct. 3rd