CADMAD Website:

1. Define user names and passwords for each partner (9 different partners including us).
2. Define privileges for each one (upload files, change text in specific page, etc.)
3. Upload new content:
    a. Kick off meeting summary for each WP, etc.
4. Related sites of similar projects : http://recbreed.eu/ , http://www.skintreat.eu/

Site map:

1. About
    a. The Vision
    b. Concept
2. Workpackges
    a. WP1
        i. Overview - public
        ii. deliverables, objective, tasks etc. - restricted to partners
        iii. Participating partner #1
    b. WP2
    c. WP3
    d. WP4
    e. WP5
    f. WP6
3. DNA library design:
    a. General explanation.
    b. DNApl Syntax.
    c. DNApl Examples.
    d. FAQ.
    e. DNApl playground (similar to this found in http://www1.weizmann.ac.il/DNAps/playground).
    f. Known issues , requested features etc. Wiki style (Known issues, future features, etc.)
4. Consortium Directory (Partners)
5. News
    a. Consortium meetings
    b. Press releases
    c. Publications

- E-mail notifications whenever a partner uploads a new file to the server.
- Change : " Suggession & Comments" - should be referred to Tuval.

Content:

WP overview:

1. **WP1. Developing textual and graphical tools for computer-aided DNA library specification (Leader UNOTT) -** This work package will aim to develop ways of specifying DNA libraries. A textual language (DNApl) will be developed as well as a graphical interface (vDNApl). The output of this WP will be the specifications and algorithms for these languages.
2. **WP2. Developing biochemistry and algorithms for a computer-aided DNA design based on DNA reuse (Leader WEIZMANN) -** This work package will have two major goals. First it will aim to improve the basic biochemical step used today for DNA processing. The second goal will be to create algorithms for designing library construction. These algorithms will be built to be able to use new future methods for DNA processing. The output of this WP will be both algorithms for library construction as well as improved protocol for the basic biochemical reactions.
3. **WP3. Automation of DNA processing based on DNA reuse (Leader: RUB)-** This WP will aim to automate DNA processing using advanced robotic platforms. A robot programming language (Robo-Ease) will be developed and released as open source. Building on it robotic applications to construct and use DNA librarieswill be built. This WP will also develop microfluidic technology to replace standard biochemistry for library construction. The output of the WP will be the open source robot programming language released to the public domain. In addition it will deliver the specification and robotic programs for constructing and assaying DNA both on standard robotic platforms as well as on microfluidic platforms.
4. **WP4. Multi-layer system integration and the development of faults detection, isolation and correction methodologies (Leader: WEIZMANN) -** This WP has two goals. First goal is the successful integration of the different sub components of the system (WP1, WP2 and WP3). The second goal is the development of fault tolerance in the system; that is the development of methods for identifying and recovering from faults. Ultimately this WP aims to develop automatic methods for preventing and dealing with faults. The output of this WP will be the specification of each sub system and its interfaces, methodologies for fault detection in library construction and algorithms for automatically dealing with faults in construction.
5. **WP5. End users' applications: Directing system development and potency validation (Leader: UKB) -** This WP aim is to (1) ensure that the development efforts are focused and not deviated from what a diverse group of potential end user scientists see as the future of DNA programming by establishing orderly communication and feedback between them and development teams, (2) test and challenge the CADMAD system by constructing several real-world DNA libraries for the partners in the project and (3) validate that CADMAD libraries advance the DNA programming art by comparing the downstream results of CADMAD libraries to traditional libraries made by existing

technology.

6. **WP6. Dissemination & Exploitation, Management & Coordination (Leader: OSM) -** This WP will lead all project dissemination activities, sharing the accumulated knowledge and findings between the partners, the scientific community and the public in large. In addition, CADMAD coordinator, WEIZMANN, with the assistance of partner OSM will endorse project results exploitation related activities, structured and intensive collaboration and interactions among CADMAD partners, assessment of the project progress and results, and high professional communication with Commission representatives,