



Hydrogen education worldwide

A possible role for the IPHE

Ágúst Valfells

5.08.2005

Training professionals for the H₂ economy

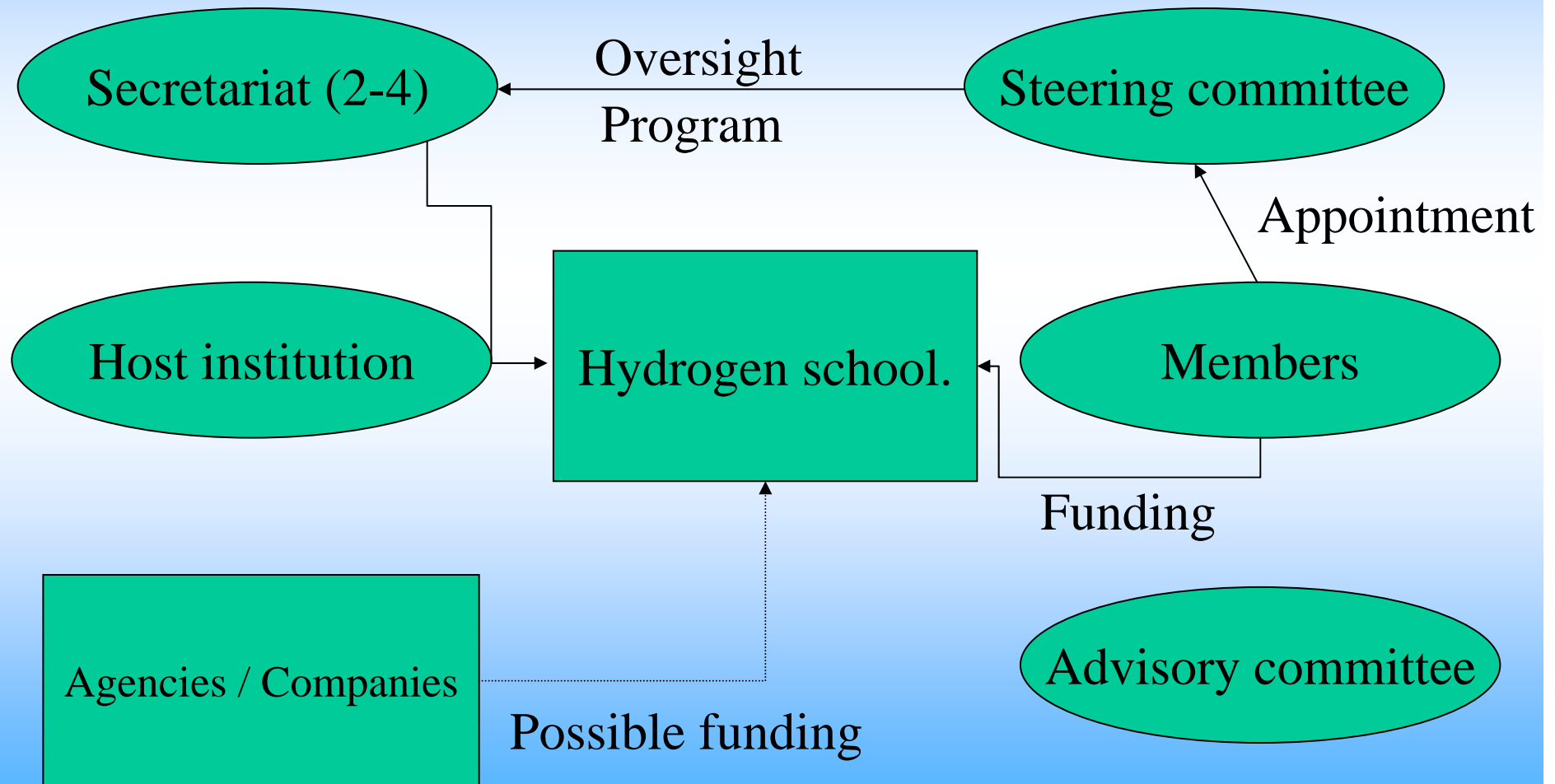
- Training for technical development and public and private sector professionals.
 - Scientists and engineers.
 - Decision makers.
 - Educators.
- “Hydrogen Engineering” programs are rare.
- Hydrogen and fuel cell systems need a multidisciplinary approach.

A virtual hydrogen school

Prototype exists and functions well.

- Intermittant courses of 1 – 2 weeks duration.
 - Intensive courses!
- Flexible curriculum.
 - Teach specialised courses.
- Varying location.
 - National, regional and international programs.
- Minimal fixed staff.
 - Utilize experts worldwide.

Possible Structure



How can the IPHE help.

- The IPHE is not a funding agency.
- Promotion of hydrogen education.
- Interaction with stakeholders and governments.
- Organization of an international Hydrogen technology school.
- Provide a template and assist regional or national schools.

Funding

- Low cost.
 - Small staff.
 - No fixed location.
 - Short term.
- Members fund secretariat & experts.
- Fee covers room, board & incidentals.
- Outside funding varies.
 - Scholarships.

Some structural aspects.

- Steering committee decides on curriculum.
 - Advisory committee assists in development and in recruiting instructors.
- Mix of introductory topics and advanced subjects.
 - National/regional schools cover introductory subjects.
 - International school more advanced.
- Open to students from non-member associations.
 - Higher fees?

Collaboration

- Collaboration with related institutions.
 - Fuel Cell Training Center in Ulm
 - Istanbul Hydrogen Research Center.
- Collaboration with similar organizations.
 - IEA.
 - European H2FC platform.
 - DOE
 - Hydrogen energy associations.
- Complementary structure on national and international level.

Benefits

- Enhanced professional development.
- Ease of access for students.
- Limited cost.
- Enhanced networking.
- Especially beneficial for nations with smaller or incipient H₂ programs.