



Institute of Innovation Strategies of
General Education Development



Integration of Education, Science and Industry as a Key Issue of the Education in the Area of Hydrogen Power



Institute of Innovation Strategies of
General Education Development

Hydrogen education today

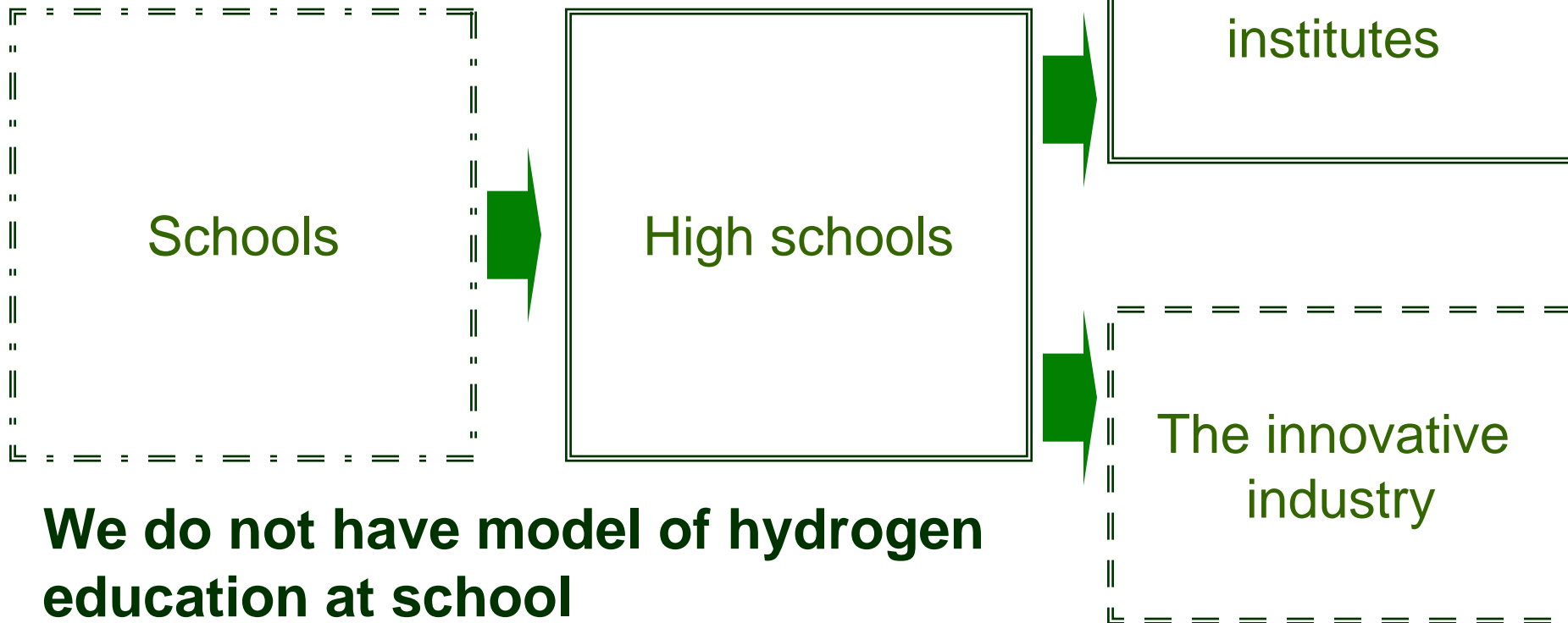
- Special subjects and courses in profile high schools
- Possibility to carry out degree works and dissertations in profile high schools or research institutes
- Possibility to train and get into gear scientific personnel at research institutes
- Popularization and training programs at schools



Institute of Innovation Strategies of
General Education Development

The most important problems

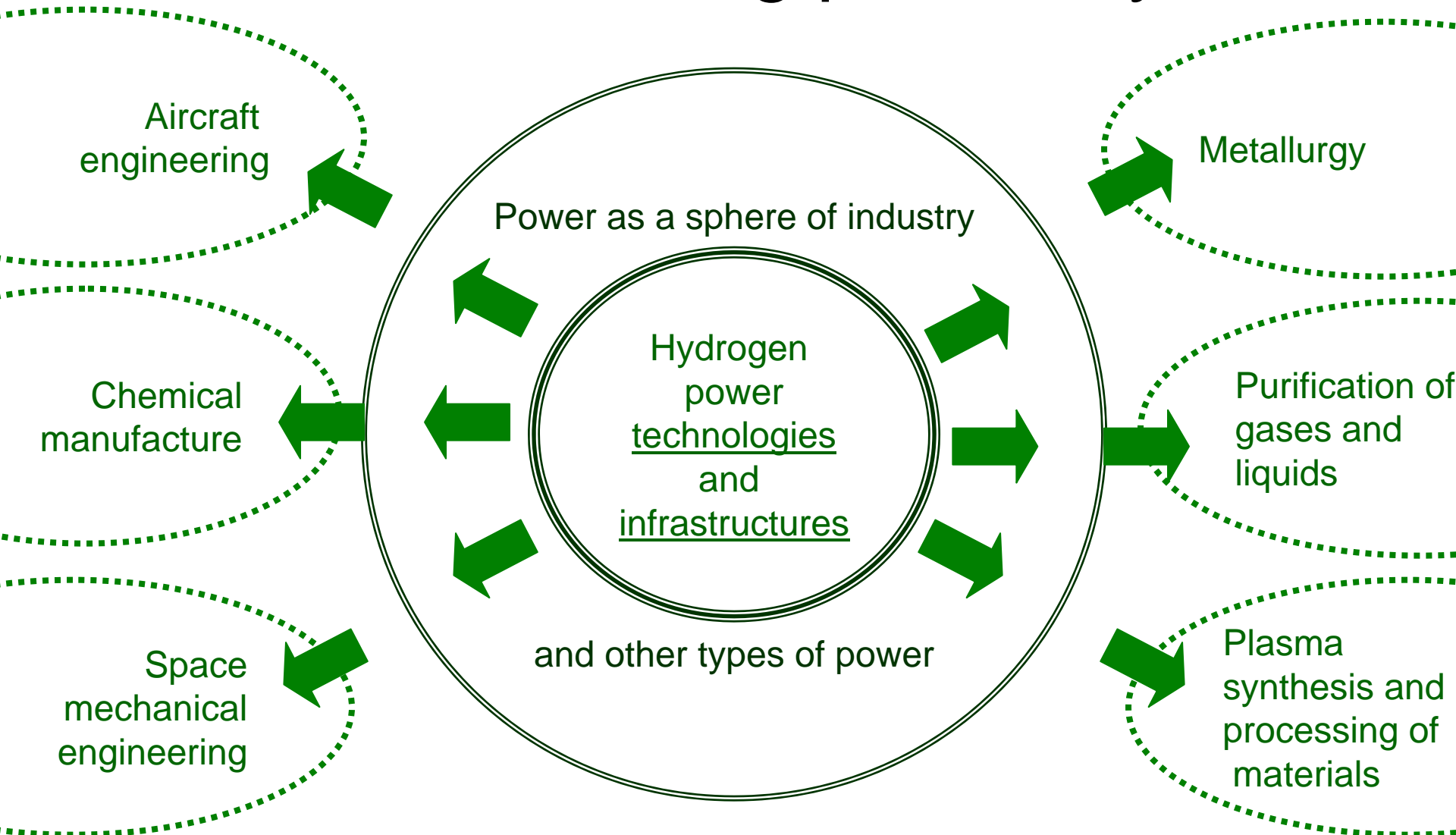
We do not have complete system of
hydrogen education



**We do not have model of hydrogen
education at school**



The advancing possibility





Institute of Innovation Strategies of
General Education Development

General designers



S.P. Korolev



G.M. Krzhizhanovsky



V.I. Vernadsky



I.V. Kurchatov



S.I. Gubkin



A.G. Basistov



Institute of Innovation Strategies of
General Education Development

Special requirements to senior

- To know where takes place a first line of development of knowledge in various subject domains;
- To have possibility on a basis of advanced discoveries to develop new technological decisions;
- To create on the basis of these technological decisions projects of new types of products, manufactures, infrastructures;
- To develop projects of construction of new branches in which new products, manufactures, infrastructures will be realized;
- To create and put into practice difficult scenarios of advancement and realization of branch projects

IIS



GED

Institute of Innovation Strategies of
General Education Development

Integration is simultaneously the
solution and a key problem itself

Education



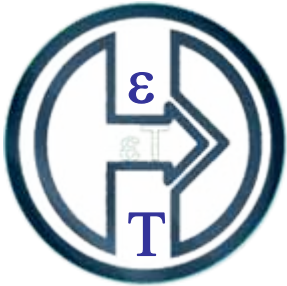
Industry

Science



Institute of Innovation Strategies of
General Education Development

Experimental models of integration



Epistemoteca – portal of epistemic
technologies working with knowledge

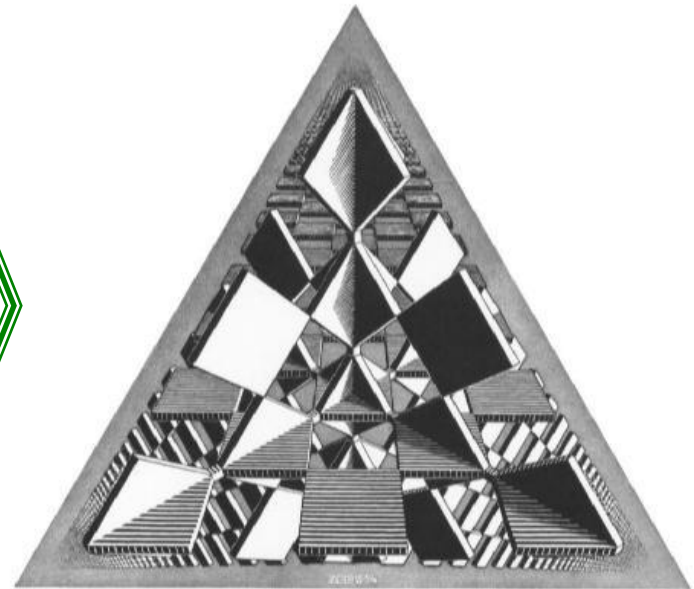
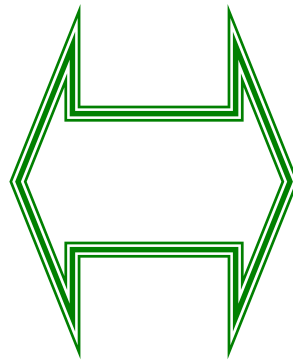


School of general designers named after
P.G. Kuznetsov (SGD)

**МОЛОДЕЖНАЯ
ЭКСПО-2008**

Youth EXPO – exhibition of youngster's
branch projects

Thought-activity pedagogic for integration models



**Universal technologies and
skills of thinking,
communication and action**

**Work with universal units
of thought-activity: signs,
knowledge etc. itself**



Institute of Innovation Strategies of
General Education Development

“Epistemoteca” – area for cooperative work with knowledge

We use special
technologies of
organization of shared
thought process and work
with knowledge –
“epistemic” technologies
on the base of IT

Today “Epistemoteca”
is on the preparation
and testing stage

But it is open for
observe on

epistemoteca.net





School of general designers today...



- SGD actively co-operates with Hydrogen power and plasma technologies institute of Kurchatov's institute (HEPTI)

- Schoolboys work on branch project of nuclear-hydrogen power
- They elaborate projects as a units of power-infrastructure
- During working out they are included in the designated educational developments of abilities and mastering of the technicians and ways of thinking, types of activity, transfer of the advanced knowledge

School of general designers today...

- Employees of HEPTI participate in lessons, provide scientific support of children's projects
- Work on the unique school labware on hydrogen power is caring out
- Since 2008 the regular Open district competition on hydrogen power is spent

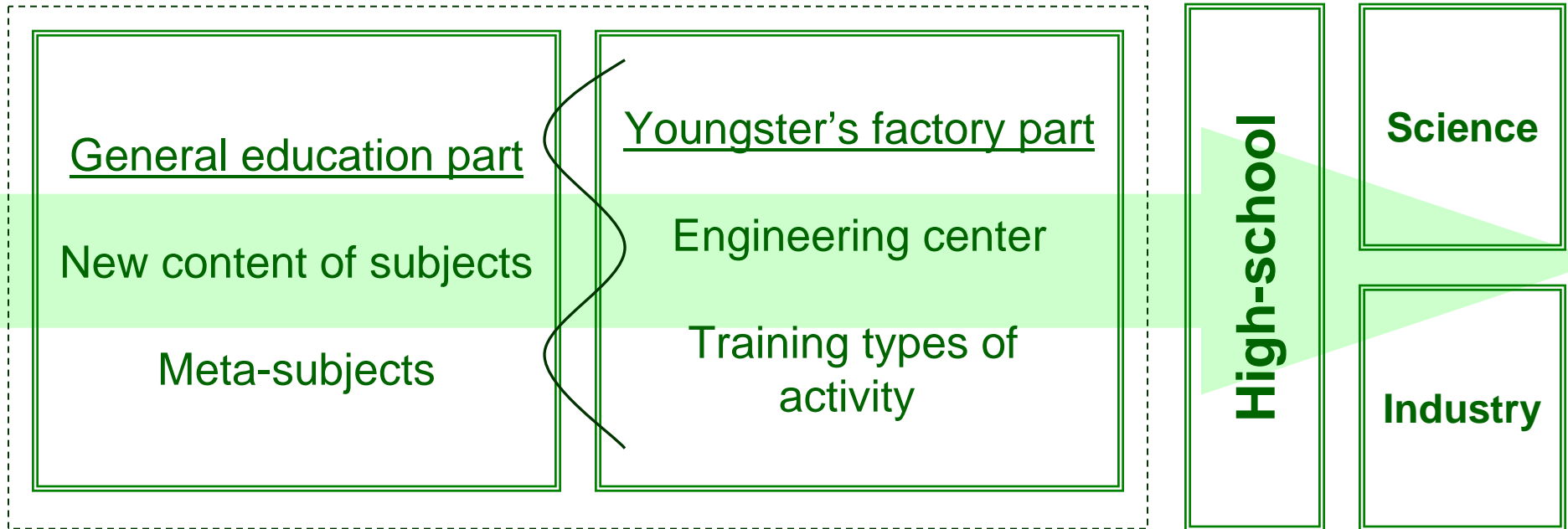


**But today School of general
designers is only additional
education**



Institute of Innovation Strategies of
General Education Development

School of general designers tomorrow



Now we investigate and develop model of
General designer school as a universal type of
general education



Institute of Innovation Strategies of
General Education Development

Thank you!

Contacts:
igor1314@mail.ru