

Dutch Fusion Day

Please take your mobile phone



DIFFER Guest || Wifi4Differ

Go to

www.menti.com

Enter the code

6999 5383



Or use QR code

What organisation do you represent?

TU/e

Asml

Differ

DIFFER

TNO

Master student DIFFER

TU Eindhoven

Trinomics

What organisation do you represent?

Differ

Differ

Mat-tech

Fusion Industry
Association

NWO-I

F4E

Twente university

TNO

What organisation do you represent?

StarWarden

TU/e

Plasma matters

TU/e

The Fusion Cluster

Asml

FUTTA

Ignition Computing

What organisation do you represent?

DGA

Alliander

Ignition Computing

Philips

TNO

Fission

TU Delft

ASML, lithography

What organisation do you represent?

Ignition Computing

Demaco

Demcon

TU/e

Differ

Exosens

Student

TU/e

What organisation do you represent?

MI-Partners

Universiteit Twente

FuseNet Association

TNO

Mat tech

Employers Federation

Government

Gauss Fusion

What organisation do you represent?

Differ

Demcon

DIFFER

Mat-tech BV

TU/e

Next Step Fusion

University of Aveiro,
Portugal

Differ

What organisation do you represent?

TU/e

StarWarden

DIFFER

Gauss Fusion

Demcon

Differ & TUe

Kusters & Bosch

F4E

What organisation do you represent?

Tu/e

Plasma Matters BV

Ignition Computing

Settels

DIFFER

Forschungszentrum
Jülich & Gauß fusion

Tu/e

forschungszentrum Jülich

What organisation do you represent?

TU/e

OCW

DIFFER

TU/e

FIA

Ministry OCW

Settels

Tue

What organisation do you represent?

TU/e

TU/e

SHINE

SURF

Ministerie van
Economische Zaken en
Klimaat

Demo central team

Star Warden

Nuclear fusion master
program TUe

What organisation do you represent?

NRG

Thermo Fisher Scientific

Forschungszentrum
Jülich GmbH

IndolesPrecision

Demcon - Engineering
consultancy

Next Step Fusion

Project Elpis

The Fusion Clustet

What organisation do you represent?

TU/e

Differ

Tue

FUTTA

FEInn

Twente university

Vacom

NRG2fly

What organisation do you represent?

VNO-NCW

Differ/tue

Exfusion

DIFFER

Engineer company

FZJ

Fusion For Energy

Settels

What organisation do you represent?

Universiteit Twente

TNO

Alliander dep

LEYBOLD

Asml

VDL

2070

2060

What organisation do you represent?

2045

2038

2040

2045

2035

2060

50

2070

14



97



What organisation do you represent?

2070

2039

2045

2040

2044

2050

2068

35 years

14



97



What organisation do you represent?

2080

2055

2039

2040

2060

2055

National Strategy

€

What organisation do you represent?

Money

Monet

National strategy

A unified view

Industry

Euros

1 billion

Systems thinking

What organisation do you represent?

We can do it!

Connections

Teade & Distribution

Well educated workforce

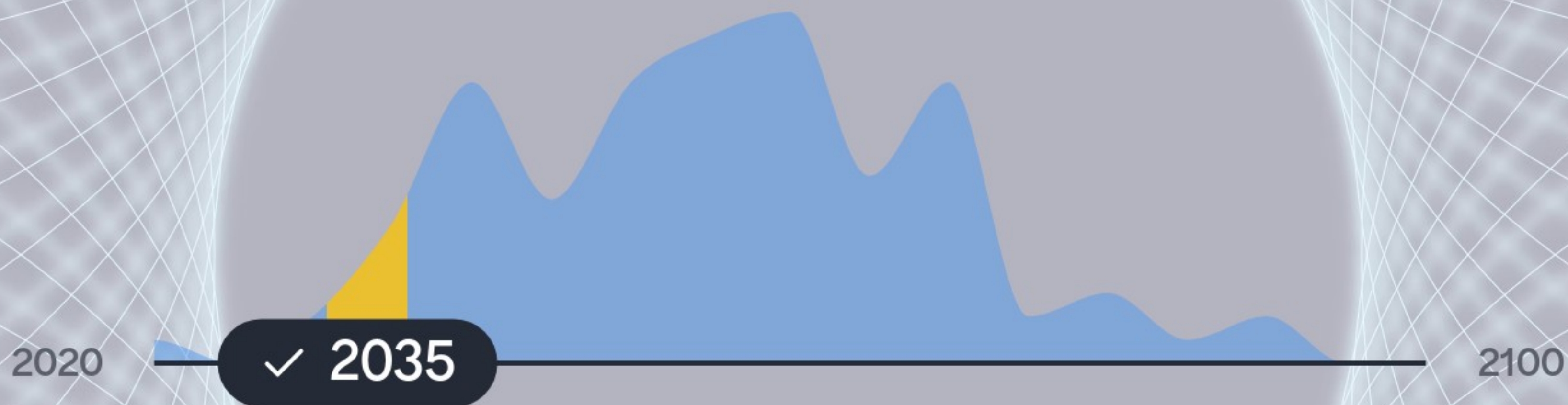
14



97



When will the first fusion plant deliver power to customers?



What does your organisation need to (further) contribute to the realisation of fusion for energy?

Money

Industry

Money 💰

Commit

Money

Money

Money

Skilled workforce

What does your organisation need to (further) contribute to the realisation of fusion for energy?

Money

Business model

Time

Knaken

Money

Money

More job opportunities
for graduates

Funding

What does your organisation need to (further) contribute to the realisation of fusion for energy?

Geld

Funding

Contacts

Organization

Moneyto start

Money money money

Cash and quick!!!

People

What does your organisation need to (further) contribute to the realisation of fusion for energy?

Time

Materials data currently
in public hands.

People

Money

Commercial fusion
partner

fund

Money

Technology

What does your organisation need to (further) contribute to the realisation of fusion for energy?

Steady energy output

Smart people

State a question

Money and resources

Collaboration

Projects for KETs

Talent

Funding for fundamental research

What does your organisation need to (further) contribute to the realisation of fusion for energy?

Programmatic funding for long term research

Longer term perspectives for young scientists

NI fusion cluster

Money

Communication

Cash

People power

Materials innovation and testing

What does your organisation need to (further) contribute to the realisation of fusion for energy?

MONEY

€/kwh

Collaborations with
academia

Money

Blanket

Start-up mentality

Money

Targets

What does your organisation need to (further) contribute to the realisation of fusion for energy?

Focus

More opportunities for after the PhD

Create cluster / association

30T magnets

Money and good employees

Aggregated demand

Vision

Access to high fidelity modelling tools

What does your organisation need to (further) contribute to the realisation of fusion for energy?

Geld

Engineering based approach

Funding

Money

National Strategy

Skills

Mkb sized projects

Natural intelligence

What does your organisation need to (further) contribute to the realisation of fusion for energy?

>50%

5 billion

5 mio

Regularity framework

What s the problem

Less burocracy

Collaboration and joined
up thinking

Ideas

What does your organisation need to (further) contribute to the realisation of fusion for energy?

2M

Low interest loans

Sme sized projects

Line of sight to sustained finding

Engineers

National strategy

Control Systems
Technology

ASML Brainport!!

What does your organisation need to (further) contribute to the realisation of fusion for energy?

Control Systems

Brainport

Control engineering

Building modules

High tech system
integration

Culture of ppp
collaboration

Systems Engineering

Material research!

What does your organisation need to (further) contribute to the realisation of fusion for energy?

Control systems

Plasma wall interaction

ASML

Solving problems

High tech

Industrial Manufacturing

100%research funding

Physics based industrial knowledge

What does your organisation need to (further) contribute to the realisation of fusion for energy?

Workshops

Combination of science and manufacturing

More startups

ASML

Delivery of subsystems

Solving difficulties

Scientific openness

Communication and awareness

What does your organisation need to (further) contribute to the realisation of fusion for energy?

Attractive t&c

Vision

Collaboratie

Very little bureaucracy

Vision

Long term (stable)
support

Common goal

Beslissers met durf

What does your organisation need to (further) contribute to the realisation of fusion for energy?

A pull

6



73



What strengths are present in the Netherlands that need to get more (international) attention from scientists, governments and entrepreneurs?

Optics

People

Coffee

Lots of know-how

Education

Remote handling

Fusion education

Dommel valley

What strengths are present in the Netherlands that need to get more (international) attention from scientists, governments and entrepreneurs?

Well educated people

Hightech stuff

Food

Creativity

Plasma-material
interactions research

Innovative technology

Models

International connection
hub

What strengths are present in the Netherlands that need to get more (international) attention from scientists, governments and entrepreneurs?

Interconnectivity

Plasma control

Engineering

Good educational program

Systems

Remote Handling

Export

Open innovation

What strengths are present in the Netherlands that need to get more (international) attention from scientists, governments and entrepreneurs?

Bring it together

Fusion education

Engineering knowledge

Collaboration

Boldness

Marketing

Educational programs
focussed on fusion

Chocomel

What strengths are present in the Netherlands that need to get more (international) attention from scientists, governments and entrepreneurs?

Education

Greenfield

Superconducting
technology

Trade culture

Innovation networks

Strong High Tech industry

Mechatronics

Material science

What strengths are present in the Netherlands that need to get more (international) attention from scientists, governments and entrepreneurs?

Innovation

Dutch attitude

Organizing

Expertise in Cryogenics

Systems, systems and control, materials

Control Systems Technology

Cryogenics

Connections

What strengths are present in the Netherlands that need to get more (international) attention from scientists, governments and entrepreneurs?

Research

Efficiency

ILO's

High tech cluster

Talent!

ASML

Controls

Tech industry

What strengths are present in the Netherlands that need to get more (international) attention from scientists, governments and entrepreneurs?

High tech system
integration

Innovative cheap
solutions

Systems engineering

Entrepreneurial

Directness

Small nuclear knowledge
sector

Collaboration

Systems engineering

What strengths are present in the Netherlands that need to get more (international) attention from scientists, governments and entrepreneurs?

Systems Engineering

SE

Entrepreneurial mindset

We can do it

NRG

Systems Engineering

Trust

Open-science

What strengths are present in the Netherlands that need to get more (international) attention from scientists, governments and entrepreneurs?

Societal support

Loyalty

Open communication

What is definitely needed in a public-private ecosystem to ensure support from Dutch science and industry?

Synergy

Stable conditions

Trust

Foreign talent

Trust

Openness

Knowledgeable
politicians

Lef

What is definitely needed in a public-private ecosystem to ensure support from Dutch science and industry?

Mutual trust and understanding

Mutual benefits

Less bureaucracy

Better roadmap

Grant less than 10m

Academic humility

Public interest

Customers

What is definitely needed in a public-private ecosystem to ensure support from Dutch science and industry?

Simple communication

Cash

Openness of scientific results

Government support and strategy

Clear IP exploitation

Independent pp organisation

Sme support

Clear identification of issues

What is definitely needed in a public-private ecosystem to ensure support from Dutch science and industry?

Long term vision

Reliable government

Long term vision

Share knowledge

Entrepreneurship

Good IP rules

Strategic Funding

Political will

What is definitely needed in a public-private ecosystem to ensure support from Dutch science and industry?

Less politics involved

Long term thinking

Outreach

Long term vision

Attractive T&C

Vision

Pragmatism

Career pathway

What is definitely needed in a public-private ecosystem to ensure support from Dutch science and industry?

Government support to provide greater certainty

More sense of urgency

Collaboration with nuclear fission

Thank you for your participation!