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Operační program Výzkum, vývoj a vzdělávání



## SustES Telč meeting - June 10 - 12



**Why do we meet?** - To formulate - Adaptation Strategies for Landscapes of Czech Republic at 2050

**How we will do it? = program in 3 lines:** Day 1 - Sharing the knowledge needed for developing the strategies; Day 2 - Developing adaptation strategies; Day 3 - Inspiration talks...representing the best of what some of us do for research.....We will try to be “kids” again - let’s focus on the common goal for a 3 days and let’s solve it.

**Who will attend:** majority of SustES team and several distinguished guests to contribute Day 1 or Day 2 efforts;

**What is expected of me?:** Be active...On Day 1 some of you are asked to present the current research to give information needed for formulating strategies; Day 2 is most important and will greatly depend on all of us. We start with empty papers and by the evening we should have adaptation strategies formulated; Day 3 - we will summarize the Strategies and then see how and what some of us do for research;

**Where and when do we start?** - Hotel Antoň, Telč, on June 10 at -between 9:00 and 9:30

**Why my name tag has color and number?** - to indicate my place in “Strategy Group” and “Sector Group”

**What should I bring with me?** - Good mood, openness and being ready to focus on helping to create the SustES strategies. It is above all our project and the success or failure depends on our efforts;

**What I shouldn't bring?** - Unanswered emails, manuscript drafts etc. anything that will get you off balance and out of the concentration. We need your full brain capacity!!:)

**Whops I do need sort out technical details:** Please contact Denisa - [omachlikova.d@czechglobe.cz](mailto:omachlikova.d@czechglobe.cz)



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## Day 1:

**9- 9:30 - Arrival, checking in, chatting (coffee start-up)**

**Summary of knowledge before the “STRATEGY GAME”**

**9:30 - 12: 30 First session – Current situations and trends – Europe and World –**

*Should give an overall outline to the rest of the workshop summing up the present on-going work and in principal thoughts of the presenter. It should be around 20-25 minutes long + few questions. This part of the overview should consider European and global perspective.*

- **Presentation 1** - Emissions and agronomy – **Jorgene Olesen** – overview of the present policy shifts and moves in terms of emissions, agriculture emission targets; preferred technologies and most promising adaptation options;
- **Presentation 2** - Renewable energy and agriculture – **Reinhard Ceulemans** – overview of the present moods and expected policies on biofuels especially with regard to the agriculture in Europe and Central Europe in particular
- **Presentation 3**: SSPs and Economy of agriculture sector – **Petr Havlík** – brief outlook on the SSPs and what is the view of SSP likelihood and what GLOBIOM predicts for global agriculture – main messages;
- **Presentation 4**: Challenges – example of uncertainty about carbon stock and sequestration challenges lesson learned from forests – **Ulf Büntgen**
- **Presentation 5**: How is the climate changing – introduction of the climate change scenarios for SustES – CLICHE Mk. 1 – **Petr Štěpánek - 15 min.**

**Lunch 12:30 - 13:30**

**13:30-16:30 Second session after lunch - Current situation of the Czech Agriculture and Forestry** - *Again important for overview and as preparation for Day 2 but more from the Czech perspective.*

- **Presentation 1** – Formulating tasks for Telč meeting -presentation of expectations + HOW it will be done + Discussion **Mirek Trnka**
- **Presentation 2** - Water resources – What water resources will be available **Martin Hanel - 20 min.**
- **Presentation 3** – Comparison of Czech farming economy and competitiveness – **David Hampel - 20 min.**



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- **Presentation 4** - Emissions from Czech landscape – current knowledge (both agriculture and forestry), game changers (e.g. bark beetle infestation) and possible policy consequences – **Emil Cienciala - 20 min.**
- **Presentation 5**- Current state of Czech agriculture from the view state administration, possible scenarios and solutions for future - **Miroslav Florian - 25 min**
- **Presentation 6**: Projections for Czech landuse and agriculture using current version of the IAP – **Ian Holman - 20 min**
- **Presentation 7**: Projections for Czech landuse and agriculture by present version of GLOBIOM - **Petr Havlík - 20 min**
- **Presentation 8** - Soil health challenges – – current problems of the Czech soils, myths and facts about the influence of agriculture and possible way forward; **Jaroslav Záhora - 20 min**

**Coordinators+ minute keepers meeting 16:30 – 18:30 - banquet room (with refreshment)** - detailing plan of the work for Tuesday, clarification etc.

**Discussions 16:30 – 18:30 - main room (with refreshment)**

**Joint Dinner 19:00**



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## Day 2:

### STRATEGY GAME -

**STRATEGY GROUPS:** Strategy development in STRATEGY groups – We will divide all participants into the following working groups representing 5 strategies. These strategy groups will always have at least 2 chairs + their “note-keeper” and set of interdisciplinary members of SustES. Their goal will be to lead the work in the Session 1, 2 and 4 of the day. The Session 3 will on the other hand be designed to test the strategies from different perspective;

### DESCRIPTION OF THE STRATEGY GROUPS

1. **Ostrich - Dead end** – no support for adaptation efforts in Czechia– denial of climate change - “reference for “no-action” scenario – **Zdeněk Žalud + Petr Štěpánek + Petr Dobrovolný**
2. **Go with the flow** – reactive adaptation in Czech agriculture (and landscape) in line with the current adaptation strategy - attempts to maintain profit margins and accepting losses in terms of non-marketable ecosystem services - no anticipation of climate change impacts and adaptation around the World – **Emil Cienciala + Otmar Urban**
3. **Hold the ground** – some proactive efforts in Czech agriculture (and landscape) in line with the current adaptation strategy BUT focused at at least maintaining the current level of ecosystem services and maximizing comparative advantages offered by climate change; The goal is not to lose under the future climate especially not lose the productive ecosystem services; We accept the World around us is changing and adapting creating opportunities for “us” but also for “them”. – **Petr Hlavinka + Christian Kersebaum + Josef Eitzinger**
4. **Make the best of climate change**– proactive efforts focused at maximising the overall level of ecosystem services, Accepting inevitable losses to any of the service including marketable ones but actively working on offsetting them by gains in other services; primarily working with existing technologies; We accept the World around us is changing and adapting creating opportunities for “us” but also for “them”.  
**Joergen Olesen + Paula Harrison + Reihart Ceulemans+ Wolfgang Wagner**
5. **Outside the limits** – strategy not bound by constraints or immediate costs - special focus on out-of-the-ordinary measures that if planned and applied could in the long-run massively increase landscape resilience. Goals similar but more ambitious than in case of *Make the best of climate change* scenario but relying also on new technologies and more robustly build; Also here we accept the World around us is changing and adapting creating opportunities for “us” but also for “them”. -**Ian Holman + Tomáš Václavík + Ulf Büntgen + Karel Klem**

### PART I/Session 1: 120 minutes 8:30-10:30

#### Independent work in groups

- 90 minutes working time. The goal for each group will be to come up with the following attributes to each strategy:



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- Basic definition of each strategy – i.e. goal, stakeholders, winners and losers
- Key steps – what needs to be done by whom and which adaptation options should be considered
- Key drivers and indicators –
- Drawing of the current and the future landscape after adopting the strategy – 1<sup>st</sup> version of the picture - artistic performance welcomed!)

**Plenary session - 30 minute Session result presentation shortly introducing each strategy – goal to keep them different or merge if necessary;**

**Coffee discussions 10:30-11:00**

**PART I/Session 2: Strategic options – 90 minutes 11:00-12:30**

**Independent work in groups – groups will be asked to work on the strategy in much more detail and prepare a written as well as tabular description. Also the drawing of the strategy should be improved;**

- For each strategy we make the list adaptation options that will be utilised;
- Requirements for adaptation implementation will be listed
- Time frame for each strategy will be defined with required steps till 2050
- SWOT of the strategy

**Written summary provided and printed by noon so it could be printed.**

**LUNCH 12:30-13:30**

**PART II EXPERT PANELS 13:30-15:30**

*Before the lunch break we will have basic characteristics of each of the strategies as seen by the individual working groups; Then we will take a different approach and all participants will be assigned to „specialist“ tables according to their field of expertise and will briefly review ALL the strategies using a predefined set of “tests”. It should take about 120 minutes; Each PANEL will be led by one or two experts + note keeper. Please note that findings of each group will be achieved collectively by the expert table;*

1. **Extreme events sensitivity – Ulf Büntgen + Petr Dobrovolný + Petr Štěpánek**
2. **Water resources – Adam Vizina + Martin Hanel**
3. **Productivity and food security – Christian Kersebaum + Reinhart Ceulemans**
4. **Emissions – Joergene Olesen + Emil Ciecinala**
5. **Biodiversity and soil health – Tomáš Václavík + Paula Harrison**
6. **Adaptation option availability and cost – Karel Klem + Otmar Urban + Ian Holman**
7. **Remote sense data for monitoring the strategy implementation - Wolfgang Wagner + Milan Fischer + Josef Eitzinger**



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**Each expert panel will get 110 minutes to work its way on the judgement of all strategies and then will get 10 minutes to fill the prescribed table**

**Coffee discussions 15:30-16:00**

**PART III back to STRATEGY GROUPS – TO DRAFT FINAL VERSION OF THE SCENARIOS 16:00-17:00**

**Going back to the „strategy“ groups and summarizing the final text for each of the strategy. It will be given 90 minutes for independent work**

- Final version of the narrative for each strategy formulated by each strategy group;
- Final SWOT of the strategy using findings of 7 expert tables areas;
- Identifying key research gaps to be filled;
- Drawing of the current and the future landscape after adopting the scenario – 2<sup>st</sup> scatch

**PART IV PRESENTING FINAL VERSION OF THE SCENARIOS 17:00-18:00**

Final presentation of the strategies to the plenum by each group - 5 MINUTE PER STRATEGY + PICTURE. 30 minutes in total

**Each group will hand the final result to Mirek Trnka no later than 17:00**

**DINNER - 20:00**



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## Day 3:

**8:00-8:20 HOW DID WE DO? - HOMEWORKS - Brief evaluation of the DAY 2 – Mirek Trnka**

**8:20-10:00 MOTIVATION LECTURES - with a brief ending focused with hints how to turn the exciting topic into successful research paper.**

1. *The Art of Scientific Performance – Tomáš Václavík 25 min.*
2. *Why we model the World and why we need models for climate change – Christian - 25 min*
3. *Why the past climate changes were important – what we can learn from interdisciplinary research – Ulf - 25 min.*
4. *Are the biofuels blessing or menace – Reinhart Ceulemans 25 min*

**Coffee discussions 10:00-10:30**

**10:30-12:30 - Working groups reports**

- TG – Evapotranspiration - Milan Fišer
- TG – Field Experiments - Petr Hlavinka
- TG – Manipulation Experiments - Karel Klem + Discussions

**LUNCH 12:30–13:30**

**PART V plenary STRATEGY GROUP – TO PLAN FURTHER TASKS 13:30-15:15**

**Joint meeting of all five „strategy“ groups and planning work that need to be done till the next meeting**

- Preparing stakeholder meeting
- Common template for the strategies
- Identifying key research gaps to be filled;
- Outstanding issues to be discussed

**Coffee discussions 15:15-15:45**

**PART VI PUBLICATION STRATEGY OF SUSTES 15:45-17:00**

Presenting the cross cutting studies – inspiration for other papers:

- Wheat adaptation/mitigation paper by Mirek Trnka
- Paper on isotopes presented by Otmar Urban
- Paper on ET experiment presented by Milan Fischer

**Then Administrative discussion**

**END OF THE MEETING ~17:00**