



TOURS 2012

CONFÉRENCE INTERNATIONALE

Faire face au changement climatique :
la contribution de la science forestière

21 – 24 mai 2012, Tours (France)

PROGRAMME DÉTAILLÉ



Tours 2012 – Programme Préliminaire (màj 12 Avril, 2012)

| Horaires | Lundi 21 Mai | Mardi 22 Mai | Mercredi 23 Mai | Jeudi 24 Mai |
|-----------------|--|--|--|------------------------------------|
| 8:00 - 9:00 | | | | Tournées de terrain (2 options) |
| 9:00 - 10:00 | | Sessions Scientifiques Parallèles 2 | Session plénière Ouverture du Forum pour décideurs et scientifiques | |
| 10:00 - 11:00 | | Pause-Café | Pause-Café | |
| 11:00 - 12:00 | | Sessions Scientifiques Parallèles 3 | Sessions plénières Panel de décideurs, discussion avec les scientifiques | |
| 12:00 - 13:00 | Accueil / Inscription | | | |
| 13:00 - 14:00 | Déjeuner (Buffet) | Déjeuner | Déjeuner | |
| 14:00 - 15:00 | Session d'ouverture de la Conférence Scientifique | Sessions Scientifiques Parallèles 4 | Sessions plénières Panel de décideurs, discussion avec les scientifiques | |
| 15:00 - 16:00 | Pause-Café | Pause-Café | Pause-Café | |
| 16:00 - 17:00 | Sessions Scientifiques Parallèles 1 | Sessions Scientifiques Parallèles 5 | Synthèse et bilan de la conférence Session de clôture | |
| 17:00 - 18:00 | | | | |
| 18:00 - 19:00 | Session Poster (accompagné d'un apéritif) | | Réunion satellite: Comité de pilotage d'ECHOES et Comité d'évaluation COST | |
| 19:00 - 20:00 | | | | |
| 20:00 - 21:00 | | Diner officiel | | |
| 21:00 - 22:00 | | | | |
| 22:00 - 23:00 | | | | |

Lundi 21 Mai

| | |
|----------------------|---|
| 14:00 – 15:45 | <p>Session d'ouverture</p> <p>Modérateur : Martin Greimel (COST Domain Committee on Forests, their Products and Services)</p> <ul style="list-style-type: none">• Présentation des projets et stratégies des partenaires de la conférence (5 minutes chacun):<ul style="list-style-type: none">○ ECHOES : Jean-Luc Peyron (ECOFOR, France)○ BACCARA : Hervé Jactel (INRA Bordeaux, France)○ TRANZFOR : Tim Payn (FRI, Nouvelle Zélande) ou Jean-Michel Carnus (INRA, France)○ REINFFORCE : Christophe Orazio (EFI Atlantic)○ FOREADAPT : Jordi Garcia-Gonzalo (ISA, Portugal)○ MOTIVE : Marc Hanewinkel (WSL, Suisse) <p>Modérateurs : Margarida Tomé (IUFRO, division 4) and Jean-Michel Carnus (IUFRO, division 8)</p> <ul style="list-style-type: none">• Présentations introductives :<ul style="list-style-type: none">○ Changement climatique et déplacement des biomes : Nicklaus E. Zimmermann (SFRI, Suisse)○ Adaptation au changement climatique: Rodney J. Keenan (Univ. de Melbourne, Australie)○ Nouvelles perspectives sur le rôle des forêts européennes dans la séquestration du carbone : une vue d'ensemble. Gert-Jan Nabuurs (EFI)○ Changement climatique et Sciences Forestières : Linda Joyce (Forest Service, Etats Unis) |
| 15:45 – 16:15 | PAUSE-CAFÉ |

16:15- 18:00. Sessions Scientifiques Parallèles 1

| IMPACTS | RESILIENCE 1 | RISKS and UNCERTAINTIES |
|--|---|---|
| <ul style="list-style-type: none"> • 'Hot-spots' of climate change impacts in European forests – results of a questionnaire. Peter Spathelf - Eberswalde University for sustainable development - Germany • Impact of climate on trees: identification of proxies in trees for measuring climatic stress. Armand Tene - UCD, Forest Research UK • Integrating parameter uncertainty of process-based forest models in assessments of global change impacts on forest productivity. Christopher Reyer - Potsdam Institute for Climate Impact Research • Using probabilistic climate change projections and an ecological site classification to assess the future risk of climate impacts on tree species in Britain. Michal Petr - University of Twente • Modelling the impact of atmospheric nitrogen deposition on french forests in the context of climate change. Noémie Gaudio - CNRS • Tree morphology as a mediator of climate change impacts on pedunculate oak trees (<i>Quercus robur L.</i>) in old even-aged stands of the "Spačva" alluvial plain forest, Croatia. Stjepan Dekanic - Croatian Forest Research Institute • New evidences of the impacts of global change at the southern edge populations of silver fir (<i>Abies alba Mill.</i>) distribution range. Laura Hernández - CIFOR-INIA | <ul style="list-style-type: none"> • Tree regeneration vulnerability to climate change: relative contributions of direct climate effects, plant interactions, herbivores & pathogens in mountain forests. Georges Kunstler - Cemagref - France • Climate change and forest genetic resources: scientific challenges, risks and opportunities. Judy Loo • Adaptive silviculture regarding climate change: the geneticist's view. François Lefèvre • Adaptability of beech (<i>Fagus sylvatica L.</i>) to climate change - Investigating the genetic variation of candidate genes along an environmental gradient. Sarah Seifert • Drought-adaptive potential of central and marginal provenances of European beech. Andreas Bolte • What determines adaptability? A case study with silver birch. Boy Possen | <ul style="list-style-type: none"> • Economics of Species Change under Risk of Climate Change: A Sensitivity and (Quasi-) Option Value Analysis. Marielle Brunette -INRA • Addressing climate change scenarios in eucalypt forest management. A landscape level optimization study case. Jordi, Garcia-Gonzalo • Coping with possible wildfire regime shifts under a changing climate: Need for local management in western Canada. Akira S Mori • Ecosystem Management in the Face of Uncertainty: Organisational Problem-Solving Performances of German State Forest Administrations Concerning Climate Change Adaptation Measures. Fenn Faber • Dealing with uncertainty in forest management under climate change. Emina Krcmar • Adapting to incremental and threshold climate change impacts to forests. Jody Bruce |

Mardi 22 Mai

8:30 – 10:15. Sessions Scientifiques Parallèles 2

PRODUCTIVITY, DISTRIBUTION 1

- Simulated forest productivity and biomass changes under global change. **Christopher Reyer** - Potsdam Institute for Climate Impact Research
- How will climate change affect the relationship between tree diversity and productivity in European temperate forests? **Xavier Morin** - ETH
- Forest productivity shifts under climate change in Europe -: a model-based analysis. **Petra Lasch** - Potsdam Institute for Climate Impact Research
- Long-term growth changes in a temperate lowland region during the last century: a retrospective analysis of tree rings comparing linear and non-linear mixed modelling approaches. **Wim Aertsen** - K.U.Leuven – Belgium
- Did South Western European tree species shift upward during the last decade? **Morgane Urli** - UMR Biogeco - INRA
- Spatiotemporal prediction of site-productivity in Baden-Württemberg. **Arne Nothdurft** - Forest Research Institute Baden-Württemberg

RESILIENCE 2

- Adaptability of silver birch (*Betula pendula* Roth) to elevated temperature and changing water regimen. **Mikko J. Anttonen** - Finnish Forest Research Institute
- Structural acclimation and photosynthesis of tree canopy in changed climate. **Mikko Peltoniemi**
- Mechanisms of local adaptation to climatic gradients: lessons from a Physio-Demo-Genetics Model. **Sylvie Oddou-Muratorio** - INRA - France
- Can we rely on nature's spontaneity in the light of climate change predictions? **Csaba Mátyás**
- Trends in the natural regeneration patterns of beech and silver fir in the Eastern Carpathians (Romania) under the climate change and Forest management. **Ion Barbu** - Forest Research Institute - Romania

ECOSYSTEM SERVICES

- Overestimation in the sensitivity of soil respiration to climate change throughout the mid-latitudes. **Callum Berridge**
- Fungal communities of Scots pine needles along a latitude gradient in Sweden. **Hanna Millberg** - Swedish University of Agricultural Sciences
- Assessment of cork production in new *Quercus* suber plantations under future climate. **Joana, Amaral Paulo** - Centro de Estudos Florestais; Instituto Superior de Agronomia - Portugal
- Are forest fungi affected by climate change? Diversity and structure of ectomycorrhizal fungal communities along altitudinal gradients in Europe. **Aurore Coince** - INRA Nancy, France
- Building a framework for managing forest ecosystem services in New Zealand and the United Kingdom. **Richard Yao**
- Effect of altitude on forest herbivores and their parasitoids: a meta-analysis. **Marc Kenis** - CABI Europe-Switzerland

10:15 – 10:45

PAUSE-CAFÉ

10:45 – 12:30. Sessions Scientifiques Parallèles 3

PRODUCTIVITY, DISTRIBUTION 2

- Impact of climate on growth and mortality of trees in the Black Forest. **Heinrich Spiecker** - Institute for Forest Growth, Germany
- The impact of climate change on the health condition and yield of sessile oak along its xeric limit. **Imre Berki** - University of West Hungary, Faculty of Forestry, Institute of Environmental and Earth Sciences - Hungary
- How will climate change affect tree distribution and management? Modelling the response of sugar maple in Quebec. **Catherine Périé** - Ministère des ressources naturelles et de la faune - Canada
- Exploring Eucalyptus fastigata growth with 3PG projections in New Zealand under different climate scenarios. **Dean Meason** - SCION - New Zealand
- Simulation of forest growth response to climatic change in Norway using a forest growth process model. **Even Bergseng** - Department of Ecology and Natural Resource Management, Norwegian University of Life Sciences
- Vulnerability of key French forest tree species to climate change, possibility of substitution of species in forestry. **Christel Anger** - INRA - France

MANAGEMENT FOR ADAPTATION 1

- The role of forestry in national climate change adaptation policy: An explorative assessment of cases from Sweden, Germany, France and Italy. **Carina H. Keskitalo**
- REsource INFrastructures for monitoring, adapting and protecting European Atlantic FOREsts under Changing climate. **Christophe Orazio**
- Designing Adaptive and Sustainable Forests in Response to Climate Change: A case study in Northern Wales. **Duncan Ray**
- Deployment of alternative species in conifer plantation forests in New Zealand and the United Kingdom as a means of adaptation to climate change a comparative case study and risk analysis. **Bill Mason**
- Adaptive management of mountain forests. **Robert Jandl**
- Optimizing the management of even-aged beech stands under climate change uncertainty. **Antoni Trasobares**

MITIGATION 1

- Kyoto forests in middle Zavolgie of Russia: monitoring, validation and certification. **Eldar Kurbanov**
- Wood preservation (carbon sequestration) or wood burning (fossil-fuel substitution), which is best for mitigating climate change? **Philippe Leturcq**
- Corporations' perspectives on forest carbon offset projects in China and Korea. **Yeo-Chang YOUN**
- Dividing GHG emissions by 4 in the French housing sector: contribution of land use efficiency in forestry and agriculture. **Arthur Riedacker and Stefano Migliore**
- Mitigation of climate change thru boreal forest management. **Kenneth Sahlén**
- Assessing and improving the overall carbon balance of the forest-wood sector: methods and approaches, uncertainties and consequences. **Sebastian Rueter**

12:30 – 14:00

DÉJEUNER

14:00 – 15:45. Sessions Scientifiques Parallèles 4

DISTURBANCES 1

- Drivers and impacts of intensified disturbance regimes in European forests. **Rupert Seidl** - University of Natural Resources and Life Sciences (BOKU)
- Forest insects and climate change: Can management mitigate the risks? **Christer Björkman** - Swedish University of Agricultural Sciences
- Observed and expected impact of climate change on a defoliator insect species, the pine processionary moth, in France and Europe. **Christelle Robinet** - INRA
- Climate change effects on the interaction between forest insect defoliators and fire in the boreal zone. **Jean-Noel Candau**
- Disturbance-driven northwards spread of European beech in Southern Sweden. **Andreas Bolte** Institute of Forest Ecology and Forest
- Likelihood of improving climatic conditions for the pine-tree lappet moth (*Dendrolimus pini*) in Scotland: an examination of the probabilistic climate change projections for the UK. **Duncan Ray** - Forest Research

MANAGEMENT FOR ADAPTATION 2

- Adaptive forest fire management in the Mediterranean Europe. **Yannis Raftoyannis**
- Optimizing the management responses to the climate change in the boreal conditions methods and findings. **Seppo Kellomäki**
- Adapting forests to climate change in the French Mediterranean Mountains: how far forest management can facilitate species succession, consider growth potential modification, and ensure the continuity of some ecosystem services. **Philippe Dreyfus**
- Exploring adaptive management options under climate change in a biosphere reserve. **Stefan Schörghuber**
- Wind damage probability-reducing forest management and its effects on recreation- and life-style values, and yield. **Kristina Blennow**
- Close-to-nature silviculture as adaptation strategy to climate change. **Peter Brang**

MITIGATION 2

- Fuelwood, timber and climate change: Insights from forest sector modeling. **Philippe Delacote**
- Sequestering carbon in forest or use biomass for substitution: a sensitivity analysis of the importance of wood product markets assumptions. **Hanne K. Sjølie**
- Sequester or substitute consequences of the increased production of bioenergy in Finland. **Maarit Kallio**
- Tool for Simulation of Forest Mitigation Potentials. **Volker Mues**
- Forest biomass production and their potential use to mitigate climate change. **Bishnu Chandra Poudel**
- What can the forest do for the climate - a Scandinavian perspective? **Johan Bergh**

15:45 – 16:15

PAUSE-CAFÉ

16:15 – 18:00. Sessions Scientifiques Parallèles 5

DISTURBANCES 2

- Uncertainties of forest risks assessment under climate change. **Oleg Panferov** - Göttingen University / Bingen University of Applied Sciences
- Overview of European forest pest and pathogen population responses to climate change. **Andrea Battisti** – University of Padova, Italy
- Responses of forest pests to climate change: tree resistance and herbivore damage along European elevational gradients. **Ewelina Czwienczek**, Poland
- Historical range of variability in temperate mountain spruce forests of Central Europe. **Miroslav Svoboda** - Czech University of Life Sciences
- Drought explains outbreak dynamics and altitudinal range expansion of a destructive bark beetle. **Lorenzo Marini**, Italy
- The WINDA-GALES wind damage probability planning tool. **Kristina Blennow** - Swedish University of Agricultural Sciences

MANAGEMENT FOR ADAPTATION 3

- Stand composition and stocking management in Mediterranean Stone pine (*P. pinea* L.) forests as adaptive measures to climate change. **Javier de Dios**
- Vulnerability assessment of ecosystem services and adaptive management options in Austrian mountain forests under climate change. **Michael Maroschek**
- Territorial foresight and regional strategies for forest management in the face of climate change - The Landes de Gascogne 2050: case study. **Olivier Mora**
- Climate change impact and adaptation in the managed Canadian boreal forest: a review of current knowledge. **Pierre Bernier**
- Tree breeding as a tool to minimize possible adverse effects of climate changes on forest trees. **Aris Jansons**
- Preparedness to climate change in European forestry based on COST ECHOES database on adaptive measures. **Marcus Lindner**

SOCIO ECONOMIC ASPECTS & KNOWLEDGE

MANAGEMENT (15 min / speech !)

- A first national assessment of climate change risks for forestry in the UK. **Andy Moffat**
- Assessing Experts Opinion on Challenges and Opportunities of Tackling Deforestation in the tropics: a Q- Method Application. **Maria Nijnik**
- Adaptation, mitigation and ecosystem services - Challenges to sustainable forest management and research needs. **Jean-François Dhôte**
- Forest owner motivations and attitudes towards land-use change for bio-energy production in Europe. **Kristina Blennow**
- A web-based tool for participatory vulnerability assessment of forest ecosystem services. **Werner Rammer**
- 1) No manual for the future: helping private woodland owners to adapt to climate change or Innovation and knowledge networks in adapting silviculture for climate change or 2) Innovation and knowledge networks in adapting silviculture for climate change. **Mariella Marzano**
- Modelling for Knowledge Update in Adaptive Forest Management. **Rasoul Yousefpour**
- Forest change - Generating, Integrating and Delivering Climate Change Knowledge to Support Forest Sector Adaptation in Canada. **Catherine Ste-Marie**

19:00 – 23:00

DINER OFFICIEL (avec la participation du groupe de sonneurs de trompes de chasse de l'ONF)

Mercredi 23 Mai

| | | |
|------------------------|---|---|
| 8:30 – 10:00 | Session plénière – Ouverture du Forum pour décideurs et scientifiques <ul style="list-style-type: none"> • La stratégie européenne sur la question du changement climatique et de la foresterie • Interface Science Décision en Europe : Think forest : Gert-Jan Nabuurs (EFI) • Les décideurs et l'Agenda de recherche stratégique (Plate-forme technologique européenne Forêt-Bois-Papier) • Forest Europe et le changement climatique • Changement climatique et Services rendus par les forêts (Section Forêt et Bois de l'UNECE/FAO) • Changement climatique et Politique environnementale forestière : Annemarie Bastrup-Birk (European Environmental Agency, Copenhague) • Dresser le décor : quel changement climatique en Europe ? | |
| 10 :00 – 10 :30 | PAUSE-CAFÉ | |
| 10:30 – 12:30 | Sessions plénières – Tables rondes du Forum pour décideurs et scientifiques <ol style="list-style-type: none"> 1. Comprendre les impacts écologiques, économiques et sociaux du changement climatique 2. La gestion forestière dans un contexte de climat changeant (adaptation et atténuation) | Organisation 1/ Introduction de chaque table ronde par le président de séance 2/ Questions des décideurs s'exprimant à la table ronde, depuis la salle ou s'étant exprimés par internet 3/ Réponses des scientifiques |
| 12:30 – 14:00 | DÉJEUNER | |
| 14:00 – 16:00 | Sessions plénières – Tables rondes du Forum pour décideurs et scientifiques <ol style="list-style-type: none"> 3. Quelles politiques publiques et quelle gouvernance pour faire face au changement climatique 4. Quel type de suivi continu des forêts pour les effets du changement climatique | |
| 16:00 – 16:30 | PAUSE-CAFÉ | |
| 16:30 – 18:00 | Session de clôture <ul style="list-style-type: none"> • Le rôle de la culture dans le changement climatique et son effet sur l'histoire. Klaus Theo Seeland (ETHZ, Suisse) • Les recommandations d'Echoes à l'intention du secteur forestier pour faire face au changement climatique en Europe • Les réponses de la Nouvelle Zélande pour lutter contre le changement climatique : Histoire de la foresterie. Chris Goulding • Quelles recommandations au secteur forestier pour faire face au changement climatique en Amérique du Nord (à confirmer) • Stratégies pour faire face au changement climatique dans le Bassin Méditerranéen • Synthèse et bilan de la conférence • Allocutions de clôture | |
| 18:00 – 20:00 | Réunion satellite : Comité de pilotage d'ECHOES et comité d'évaluation COST | |

Jeudi 24 Mai: tournées de terrain

TOURNEE EST Loches - Vierzon

7h45: **Départ du Centre de Congrès VINCI**

9h15 – 10h45 : **Visite d'une forêt privée près de Loches (Forêt de Kerleroux, Commune de Manthelan) :**

- **Discussion sur le dépérissement du chêne pédonculé**
- **Diagnostic de la résilience des arbres après sécheresse (Archi)**
- **Diagnostic du site et des variétés adaptées**

11h00 – 11h30 : **Visite de la forêt domaniale de Loches :**

- **Sylviculture du chêne sessile**

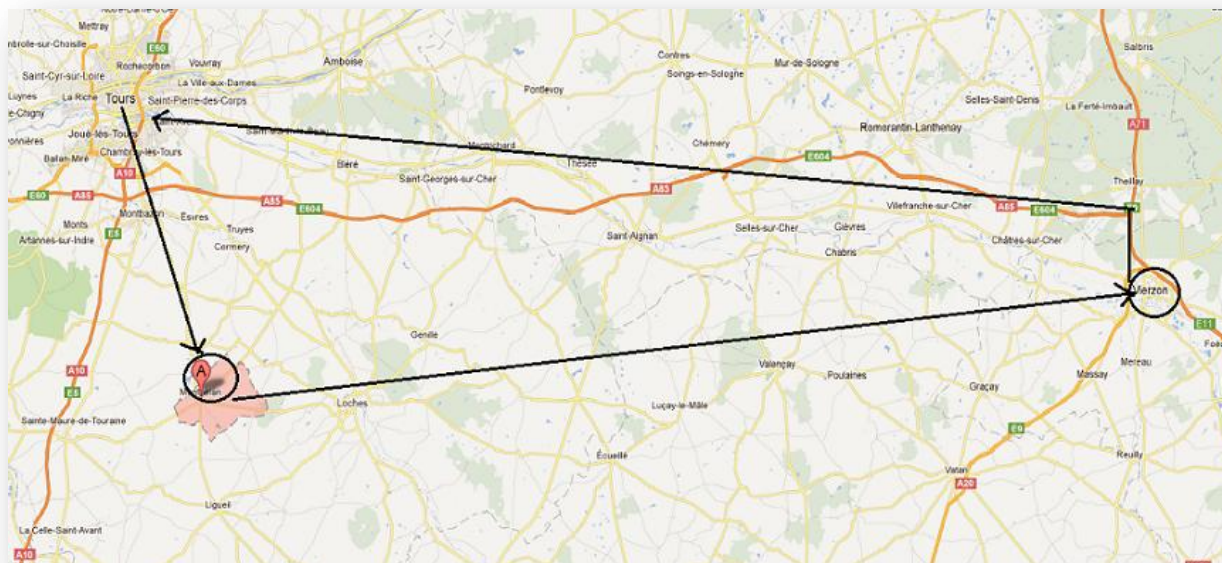
11h30 – 14h00 : **Trajet vers Vierzon et déjeuner au restaurant (« Le Chalet de la Forêt » - Tél : 02 48 75 35 84)**

14h00 – 16h00 : **Visite de la forêt domaniale de Vierzon :**

- **Dépérissement du chêne et gestion de crise**

16h00 – 17h30 : **Trajet vers Tours**

17h30 : **Arrivée au Centre de Congrès VINCI**



TOURNEE NORD

La Petite Charnie – Bercé

7h45 : *Départ du Centre de Congrès VINCI*

9h45 – 12h15 : *Visite de la forêt domaniale de La Petite Charnie :*

- *Brève histoire de la forêt*
- *Tests de provenance du chêne sessile (et pédonculé)*
- *Dispositif de suivi intensif du chêne (sessile et pédonculé)*
- *Tests de descendance des chênes sessile et pédonculé*
- *Variabilité génétique et changement climatique*

12h30 – 13h30 : *Déjeuner au restaurant*

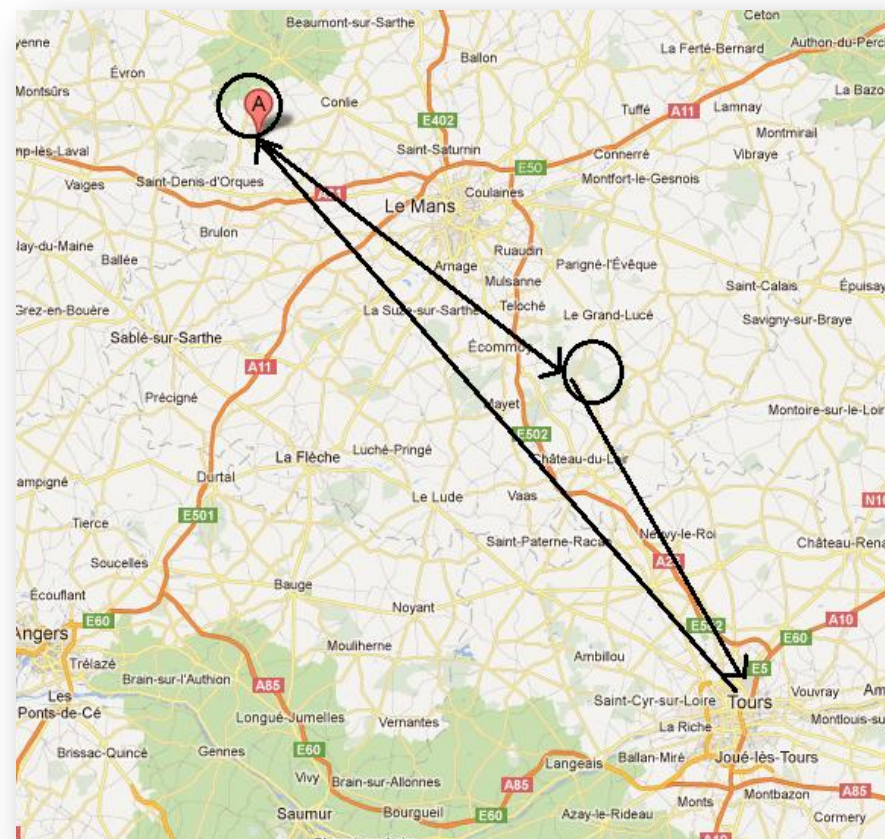
13h30 – 14h45 : *Trajet vers la forêt domaniale de Bercé*

14h45 – 16h15 : *Visite de la forêt domaniale de Bercé :*

- *Sylviculture du chêne*
- *Changement climatique (y compris les incendies)*

16h15 – 17h30 : *Trajet vers Tours*

17h30 : *Arrivée au Centre de Congrès VINCI*



Partenariats

