

# THURSDAY 27 SEPTEMBER

## GENERAL

TIME	WHAT	DESCRIPTION	SPEAKERS & MODERATORS	LOCATION	THEME
<b>9.00</b>	Energieboot leaves (Energy boat)	Students, startups, researchers and other young people with a lot of buoyancy sail on clippers to Springtide.	<a href="http://www.springtij.nu/energieboot">www.springtij.nu/energieboot</a>	Own ships	
<b>9.18</b>	Depart Utrecht CS OV ticket-holders	Train passengers can step into a Springtij coupé from Utrecht to Harlingen Haven (platform 12, please remember to check in).	<a href="http://www.springtij.nu/treinreis">www.springtij.nu/treinreis</a>	NS train	
<b>11.00</b>	Reception	Reception and welcome of Springtide participants in the ferry terminal of Harlingen with coffee and sandwiches. Distribution of badges, hotel arrangements and program booklets.	<ul style="list-style-type: none"> <li>- Bert Wassink, mayor of Terschelling</li> <li>- Katinka Abbenbroek, director Springtij</li> <li>- Mireille Wiegman, island team manager Springtij</li> </ul>	Ferry terminal Harlingen	
<b>12.00</b>	Departure group B	Part of the participants sail with the regular fast ferry to Terschelling. The boat leaves at 12.30.		To the fast ferry through gate B: 'Terschelling'	
<b>12.30</b>	Departure group A	The rest of the participants sail with the Springtide fast ferry to Terschelling. The boat leaves at 13.00.		To the Springtij fast ferry through gate A: 'Vlieland'	
<b>13.15</b> <i>group B</i> <b>13.45</b> <i>group A</i>	Arrival	Arrival on the island. There are vans in the parking lot that will transport your luggage to your hotel. Walk along the quay to the Tonnenloods.			

# THURSDAY 27 SEPTEMBER

## GENERAL

TIME	WHAT	DESCRIPTION	SPEAKERS & MODERATORS	LOCATION	THEME
14.15 - 15.45	All hands in the shed	Opening Springtide Forum 2018	- Wouter van Dieren - Harm Edens	Tonnenloods	
		<b>A seaman's adventure in an ocean of plastic</b> As a sea captain, Charles Moore (USA) used to sail across the Pacific in his yacht. One season, he took a very different trajectory, shipping lanes where no one ever went. There, he encountered a distressing sight, a vast plain, hundreds of square miles of floating plastics. It cycled, it went round and round, and it was called the <i>Plastic Soup</i> . This was the beginning of what became a global issue, a source of action and responsibility.	- Charles Moore (Great Pacific Garbage Patch)		
		<b>Money makes the world go round. Green money saves the world.</b> Born in Rumania, grown up in Germany, blossomed in California, computer scientist and impact investor in Munich, Mariana Bozesan is the driving force behind the Investment Wende. This is a breakthrough in the usually so rigid financial world, which freezes itself in old models, where risk avoidance sets the tone. There must be other ways, in order to make free the funds for the great green transformation.	- Mariana Bozesan (Club of Rome, AQAL)		
		<b>50 years after and 50 years ahead; Come On, it is time to act!</b> Club of Rome Co-president Ernst Von Weizsäcker is one of the most prominent global leaders in advanced green thinking. He will be launching <i>Come On</i> , the Club of Rome report, which is to be the token of its 50 Years Anniversary.	- Ernst Ulrich von Weizsäcker (Club of Rome)		
		<b>Springtide's Shadow Tables</b> The government, or politics, has set up five poldering Climate Tables. Here you find the Shadow Tables. They cover the same themes. The centre or the Agora or the <i>Situation Room</i> of Springtide.	- Hans Warmenhoven (De Gemeeynt)		
15.45	Move	To the Betonningsterrein			
16.00	Galley	Coffee and distribution of the Departures		Betonningsterrein and Barn	
16.45	Move	To the Departures			

# THURSDAY 27 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
17.00 - 18.30	Barn	Energy & Climate	<p><b>D1. Springtide's Shadow Tables</b></p> <p>Like Ed Nijpels' Climate Tables, Springtide's Shadow Tables are divided into Agriculture and land use, Mobility, Industry, Electricity and Built Environment. We add two tables: Finance and the Wooden table (the role of the forest).</p>	<p><i>These Tables are Springtide's Situation Room. There are seven discussion tables, with a fixed group of people per table, who note, analyze and advise. You attend these debates as an audience. Each table has an empty chair for the audience.</i></p> <p><i>From all Departures you can email your findings and tips to this Situation Room via <a href="mailto:schaduwtafels@springtij.nu">schaduwtafels@springtij.nu</a>, or tweet them to @SpringtijNL, #Schaduwtafels</i></p>	<p>Tables and Chairs:</p> <ul style="list-style-type: none"> <li>- Agriculture and land use: Marcel Schuttelaar</li> <li>- Mobility: Elfrieke van Galen</li> <li>- Industry: John Grin</li> <li>- Electricity: Leo Meyer</li> <li>- Built Environment: Jan Coen van Elburg</li> <li>- Finance: Itske Lulof</li> <li>- Wooden table: Miriam van Gool</li> </ul> <p><a href="http://www.springtij.nu/schaduwtafels">www.springtij.nu/schaduwtafels</a></p>
17.00 - 18.30	Ieders Plak, Boszaal	Energy & Climate	<p><b>D2. Energy transition: the local interplay</b></p> <p>Municipalities are working on local visions and plans for the energy transition. By 2021, the plans to improve sustainability must be ready. Aldermen take the lead. In this process, the regional grid operators such as Enexis, Liander and Stedin function as facilitators for the municipalities. A difficult role for both municipalities and grid managers, because the transition is a complex process and we have never done anything on this scale. Moreover, it is important that we get and keep citizens on board, also because the energy transition leads to energy costs that are not always earned back.</p>	<p><i>During this interactive departure we step into the shoes of aldermen, civil servants and citizens. Pivotal is the question how to involve citizens and with what story. We experience the aldermen's challenges and dilemmas and experience the interaction with the citizens involved.</i></p>	<ul style="list-style-type: none"> <li>- Enexis Group: Cor Brockhoven, Leon Piepers, Tim van Melick</li> <li>- Alliander: Koen Eising</li> <li>- Stedin: Reinout van Wissenburg</li> <li>- Game host: Harm Edens</li> </ul>
17.00 - 18.30	Dorpshuis Ons Huis 	Resources & Circular Economy	<p><b>D3. Our circular course</b></p> <p>Even if energy supply is transferred to full renewables, then still it needs resources. All energy systems are a means, not a goal in itself. The underlying question is called need, depletion, squander, and lack of efficiency. The answers to that have many names: recycling, cradle to cradle, and now the circular economy. The systems solution is called Factor 10: How to organise the production of a Unit Wealth with a factor 10 less material input.</p>	<p><i>Scarcity of raw materials is one of the greatest challenges of our time, and it was the basis of the Club of Rome's thinking. Currently, Circular Economy seems to be the solution to all our problems. Ernst Ulrich von Weizsäcker takes us into the history of thinking about raw materials. Harald Friedl shows that our world is only 9.1% circular, and Eva Gladek discusses the importance of system thinking. We look for the core values, incentives and the circular course.</i></p>	<ul style="list-style-type: none"> <li>- Ernst Ulrich von Weizsäcker (Club of Rome)</li> <li>- Harald Friedl (Circle Economy)</li> <li>- Eva Gladek (Metabolic)</li> <li>- Moderator: Cécile van Oppen</li> </ul>
17.00 - 18.30	Westerkerk	Innovation	<p><b>D4. The Rainbow: Not so perpetual motion</b></p> <p>At the end of the Rainbow you will find a pot of gold. Inventors, entrepreneurs and treasure hunters are looking for that gold (money), or Investments. The Innovation theory states that we can innovate away from the crisis. That is largely true. The ingenuity of man seems limitless.</p>	<p><i>The Rainbow Program deals with 9 sustainable, socially relevant innovations that have great ambition and potential in the field of sustainability in general and in realising the climate goals in particular. It is up to the jury and the audience if they agree. And it's in the safe hands of Jort Kelder and Jolande Sap to do that flashy and sharp.</i></p>	<ul style="list-style-type: none"> <li>- Moderator: Jort Kelder</li> </ul> <p>Check the innovations on <a href="http://www.springtij.nu/regenboog2018">www.springtij.nu/regenboog2018</a></p>
17.00 - 18.30	De Geskieker	Food & Agriculture	<p><b>D5. Food: the impacts and the challenges</b></p> <p>The world has to eat. The farmers must be able to work. There must be land, technology and perspective. Everything has consequences, for people, for animals and for the planet.</p>	<p><i>We discuss the impact of the food system and the perspectives. Marjolein Demmers sketches them. PBL'S Petra van Egmond reacts.</i></p>	<ul style="list-style-type: none"> <li>- Marjolein Demmers (RLI, Natuur &amp; Milieu)</li> <li>- Petra van Egmond (PBL)</li> <li>- Moderators: Jan Paul van Soest, Natascha Kooiman</li> </ul>

# THURSDAY 27 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
17.00 - 18.30	Westend Theater	Water & Oceans	<p><b>D6. The Acid Ocean and the fate of Beauty</b></p> <p>The sea is the most important sink for CO<sub>2</sub>, but carbon dioxide is also an acid. Moreover, if the water temperature rises, then the coral will fade and die. It is possible to restore this living substrate as well as shellfish banks. A sign of hope.</p>	<p><i>The role of reefs and coral communities in the ecosystem of the oceans and for inhabitants of islands in the Pacific. Coral can dissolve and fade at lower pH values. Coral reefs are also being restored. Coral is actually Building By Nature. This also applies to the reintroduction of shellfish banks: together with nature, we restore marine ecosystems.</i></p>	<ul style="list-style-type: none"> <li>- Sander Dekker (Van Oord)</li> <li>- Han Lindeboom (WMR)</li> <li>- Emilie Reuchlin (WNF)</li> </ul>
17.00 - 18.30	Construction area in the Tonnenloods	Earth Limits	<p><b>D7. Limits to food production</b></p> <p>Limits to Growth (Club of Rome, Meadows) calculates that we can feed no more than 2 billion mouths by 2050. The production of food stagnates due to climate change and shortages of water and raw materials. Follow-up book 2052 (Randers) comes to 4 billion people. That means that all known ideas, values and plans are put aside.</p>	<p><i>The solutions are countless. These arise mainly from the old way of thinking. Numerous adjustments that were not used for the hot countryside of 2025 - 2050 and beyond.</i></p>	<ul style="list-style-type: none"> <li>- Wieteke Willems (Universiteit Twente)</li> <li>- Wouter van der Weijden (Centrum voor Landbouw en Milieu)</li> <li>- ir. Sjaak Konijn (Wageningen UR)</li> <li>- Moderator: Gijs Kuneman</li> </ul>
17.00 - 18.30	Dunes at the bunkers at Tigerstelling	Leadership	<p><b>D8. Orion in the dune valley, coaching in the dunes</b></p> <p>On a quest under the trees and in the dunes we find the wise men from the East, the pilots in the surf, the watchers in the crow's nest.</p>	<p><i>During a walk you can receive personal coaching from a number of Dutch top coaches. Every coach uses her/his expertise to answer your personal or business question.</i></p>	<p>Check for the available coaches on <a href="http://www.springtij.nu/leiderschap">www.springtij.nu/leiderschap</a></p>
17.00 - 18.30 	De Kraak <b>SEMI- PLENARY</b>	Finance SDGs	<p><b>D9. Financing Peace and Paradise</b></p> <p>The SDGs reflect a sort of Total Image of the world's needs. If these are met, then we might have created a Paradise on Earth. The costs to resolve this predicament are beyond our imagination. Yet. Some try to estimate and to propose, a courageous task.</p> <p>CoR-member Stefan Brunnhuber has an answer. Given the global debt crisis, he argues, which counts in many trillions, we cannot expect that even more money will go into a bottomless pit of squander, waste and more debt.</p>	<p><i>The Sustainable Development Goals are an agenda for the world we want in 2030. To achieve them, we need new ways of thinking and doing. Blockchain is a revolutionary technology which offers great opportunities. It makes our value chains transparent, showing the real costs and benefits of our products, for people and planet. It means that companies can compete on values other than money. It can distribute power more evenly over the value chains: from small farmer to us as consumers. Learn in this session how blockchain works. Meet pioneers who use blockchain for good: a parallel currency to finance sustainability and power to the people who make and eat food. Discuss how you can use it for your goals. Strategize on how we can work together to scale up innovations and transparency for the transformations we want.</i></p>	<ul style="list-style-type: none"> <li>- Stefan Brunnhuber (European Academy of Science and Arts, EASA)</li> <li>- Maresa Oosterman (SDG Charter)</li> <li>- Sander de Jong (Fairfood)</li> </ul>
17.00 - 18.30	leiders Plak, Huiskamer-café	Innovation	<p><b>D10. Play a game with us, seriously</b></p> <p>Not Monopoly but bitter negotiations about the unexpected effects of decisions. Exciting and surprising. In such games players take decisions that usually turn out quite differently from what they expect.</p>	<p><i>In the CO<sub>2</sub> Serious Game we take the role of industry and experience the dilemmas on the route to a CO<sub>2</sub>-free economy in 2050. What happens when the CO<sub>2</sub> price goes up? And if you invest in a new development? What influence does your subsidy have?</i></p>	<ul style="list-style-type: none"> <li>- Game host: Kirsten Kramer (Gemeente Terschelling)</li> <li>- Expert host: Tjeerd Jongtsma (ISPT)</li> </ul>
17.00 - 18.30 	Tonnenloods <b>SEMI- PLENARY</b>		<p><b>D11. Looking back and looking ahead, a dialogue</b></p> <p>Looking back on climate negotiations with experience and vision. Yvo de Boer led the climate negotiations at the Copenhagen climate summit and therefore knows what is going on inside the holy halls of international negotiations.</p>		<ul style="list-style-type: none"> <li>- Yvo de Boer (SRI, The Lime Tree)</li> <li>- Ian Dunlop (Climate Change Advisor)</li> <li>- Moderator: Paul Hohnen</li> </ul>

# THURSDAY 27 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
17.00 - 18.30	De Halve Maen, Gemeentehaven <b>EXCURSION</b>		<b>D12. Hudson meets Ockels – excursion to the Halve Maen and the Ecolution</b> In his last years, Wubbo built the <i>Ecolution</i> , the sustainable ship with which he sailed to Aruba. The ship was completed in 2015-2016-2017, now everything is as it should be. And it goes to the World Exhibition in Japan (2020) as an icon of <i>Dutch (Green) Designs</i> . Henry Hudson sailed in the wake of Willem Barentsz to the Arctic Sea, found ice there too, and ended in the mouth of the Hudson River (USA).		

## GENERAL

TIME	WHAT	DESCRIPTION	SPEAKERS & MODERATORS	LOCATION	THEME
18.30	Move	Picking up bicycles on the Betonningsterrein.		Betonningsterrein	
18.45	To the hotels	To hotels and own accommodations			
19.30	On the road	Springtide buses leave from the hotel bus stops. People with own accommodation can get on the bus at Hotel Schylge.			
20.00	Follek om Oost	<b>Captains dinner</b> The doors are always open on Terschelling. You do not ring the doorbell but you call 'Follek!' or 'Here I am!' We dine in the villages of Midsland, Hoorn and Oosterend.	People with a diet or allergy are requested to go to Café Restaurant de Groene Weide in Hoorn. This is stated on the bus.	Midsland, Hoorn and Oosterend	
22.00	Fjoertoer	<b>Fjoertoer</b> The lighthouse of Terschelling, the Brandaris, is also called 'Fjoertoer'. This evening we take a magical fire and light walk through the forest of Hoorn.		Hoornse Bos	
23.30	To bed	Buses back to the hotels			

# FRIDAY 28 SEPTEMBER

## GENERAL

TIME	WHAT	DESCRIPTION	SPEAKERS & MODERATORS	LOCATION	THEME
8.30 - 10.00	All hands in the Loods	Welcome	- Paul Hohnen	Tonnenloods	
		<p><b>The European Dream or Nightmare</b> In the labyrinth of Brussels, very few know their way. Plans, projects, money, bureaucracy, visionaires an backlashes, with Climate, Energy and Immigration as a footprint and foodsteps.</p>	- Sandrine Dixson-Declève (Interel, international expert on climate change)		
		<p><b>The central banks back in the centre</b> The Dutch Central Bank (DNB) stands as an inaccessible tower in the middle of old Amsterdam. The centre of the (financial) power, where the supervision resides on banks, pension funds, the insurance market, the entire money-dealing business. Supervision also on the flash capital and the Global Casino, or currency trading and stock exchange. The financial ship is an ocean liner that can hardly be stopped. Nevertheless its course will change. Frank Elderson (DNB) is at the helm. He initiated a platform of Central Banks. Great changes have to be enacted here.</p>	- Frank Elderson (De Nederlandse Bank, DNB)		
		<p><b>Balancing farmers</b> Agriculture is at a tipping point and there is more demand for biodiversity in agriculture. Agriculture can deliver that, but the question is how fast and at what price. If primary production decreases to ensure more biodiversity, the farmer must still be able to earn a good living. The consumer also plays a role in this process. Dairy farmer Ingrid van Huizen (39) from Kootstertille in Friesland is the portfolio holder for Nature and Landscape Development at the Dutch Federation of Agriculture and Horticulture (LTO Nederland). James Lomax is Sustainable Food Systems and Agriculture Program Officer at the UN and introduced system thinking in the food and agricultural sector.</p>	- Ingrid van Huizen (LTO Nederland)		
		<p><b>En route in the climate</b> In 1953 it was crystal clear. The Delta Plan, restoring the dikes. Never again too much water. By 2050, ten or more Delta plans have to be completed. Everything is changing, because the sea level is rising, and the whole country is to become climate-proof. Infra and water. Infra and drought. Infra and heat. No easy matter.</p>	- Stientje van Veldhoven (Ministerie van IenW)		
		<p><b>Startup on the Beach</b></p>			
10.00	Move	To the Betonningsterrein			
10.15 - 11.00	Galley	Coffee Distribution of the Departures			
11.00	Move	To the Departures			

# FRIDAY 28 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
11.15 - 12.45	Barn	Energy & Climate	<p><b>V1. Springtide's Shadow Tables</b></p> <p>Like Ed Nijpels' Climate Tables, Springtide's Shadow Tables are divided into Agriculture and land use, Mobility, Industry, Electricity and Built Environment. We add two tables: Finance and the Wooden table (the role of the forest).</p>	<p><i>These Tables are Springtide's Situation Room. There are seven discussion tables, with a fixed group of people per table, who note, analyze and advise. You attend these debates as an audience. Each table has an empty chair for the audience.</i></p> <p><i>From all Departures you can email your findings and tips to this Situation Room via <a href="mailto:schaduwtafels@springtij.nu">schaduwtafels@springtij.nu</a>, or tweet them to @SpringtijNL, #Schaduwtafels</i></p>	<p>Tables and Chairs:</p> <ul style="list-style-type: none"> <li>- Agriculture and land use: Marcel Schuttelaar</li> <li>- Mobility: Elfriek van Galen</li> <li>- Industry: John Grin</li> <li>- Electricity: Leo Meyer</li> <li>- Built Environment: Jan Coen van Elburg</li> <li>- Finance: Itske Lulof</li> <li>- Wooden table: Miriam van Gool</li> </ul> <p><a href="http://www.springtij.nu/schaduwtafels">www.springtij.nu/schaduwtafels</a></p>
11.15 - 12.45	Ieders Plak, Boszaal	Energy & Climate	<p><b>V2. Energy transition: the local interplay</b></p> <p>Plans for more sustainable districts are made using a national assessment framework, where the choice for all electric, a heating network or a hybrid heat pump will never make everyone happy. Nevertheless, scalable solutions need to be introduced. And affordability needs to be one of the guiding principles.</p>	<p><i>We watch the video that was made during the first departure and draw lessons from it. Harm Edens talks with aldermen and Roel Woudstra (theme owner Energy saving at Enpuls) about effective guidance of citizens in community development.</i></p>	<ul style="list-style-type: none"> <li>- Enexis Group: Cor Brockhoven, Leon Piepers, Tim van Melick</li> <li>- Alliander: Koen Eising</li> <li>- Stedin: Reinout van Wissenburg</li> <li>- Moderator: Harm Edens</li> </ul>
11.15 - 12.45	Geskieker	Food & Agriculture	<p><b>V3. Analyses and controversies. A shared vision around a sustainable and healthy food system</b></p> <p>The world has to eat. The farmers must be able to work. There must be land, technology and perspective. And so there are violent polarizations, and countless scenarios, both grim and promising. Instrumentation in industry, carrot or stick.</p>	<p><i>We discuss the various analyses and visions concerning a sustainable and healthy food system. How can they combine and where are the differences? We do this with all those involved: farmers, banks, the government, knowledge institutes and social organizations. And with two special guests: Statler &amp; Waldorf.</i></p>	<ul style="list-style-type: none"> <li>- Introduction: Frederike Praasterink (HAS Den Bosch)</li> <li>- Panel: Ingrid van Huizen (LTO), Bas Rüter (Rabobank), Aldrik Gierveld (Ministerie LNV), Suzanne van der Pijl (Schuttelaar &amp; Partners), Martijn Weijtens (LNV), Rob Hamer (Unilever)</li> </ul>
11.15 - 12.45	Bunkers Tigerstelling (poor weather: Spuiterij, Tonnenloods)	Energy & Climate	<p><b>V4. Instrumentation in industry, carrot or stick</b></p> <p>Emission rights, the polluter does not pay, the producer closes the factory and leaves for an emission-friendly country. Where everything is allowed.</p>	<p><i>The parties involved agree that the European emission trading system does not (timely) provide the required incentive for the industry to realise the intended emission reductions. So more instruments will have to be used. The parties disagree, however, about how this should look like. A subsidy/tender-like instrument to finance the unprofitable top of investments? Pricing? Mandatory instruments? An exploration of the possibilities.</i></p>	<ul style="list-style-type: none"> <li>- Frans Rooijers (CE Delft)</li> <li>- Hansch Bolscher (Trionomics)</li> <li>- Guido Schotten (DNB)</li> <li>- Moderator: Hans Warmenhoven</li> </ul>
11.15 - 12.45	Betonnings-terrein	Nature	<p><b>V5. A new nature story 1 – the multiple value of nature</b></p> <p>Nature, we even have a Planning Office for it, although the poet J.C. Bloem wrote about it a century ago: 'What is Nature still in this country, a stamp the size of a newspaper.' If mankind eradicates nature and thereby itself, by 4 or 8 or 10 degrees of warming in a few hundred years, there will still be nature left afterwards, albeit very different. What we want with our nature at that time, we do not seem to know well.</p>	<p><i>The planet and nature are the basis of our existence. But we do not handle it very carefully. Nature is under pressure. An example is the insect mortality that has attracted a lot of attention in recent years. Our nature policy should give an appropriate answer, but has not succeeded so far. Based on different perspectives on nature, we start a dialogue about the future of the new nature policy. We work on a long-term vision in order to arrive at a clear and joint new nature story. Not only concerning nature areas or functions of nature, but also our relationship to nature. A triptych in which we consider our longing for nature in this first departure from three different perspectives.</i></p>	<ul style="list-style-type: none"> <li>- Marius Brants (WNF)</li> <li>- Frank Elderson (DNB)</li> <li>- Frank Gorter (Landgoed Welna)</li> <li>- Reflection : Alex Datema (Boer &amp; Natuur), Coenraad Krijger (IUCN), Johan Osinga (LNV), Peter Drenth (Provincie Gelderland)</li> <li>- Moderator: Harm Ede Botje</li> </ul>

# FRIDAY 28 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
11.15 - 12.45	Doode-manskisten (poor weather: Dorpshuis Ons Huis)	Water & Oceans	<b>V6. The Water Agenda</b> The Frisian Water Board is using the so-called stress test to find out what to do with the extremes of climate change, ie drought and excess of water. It is getting hotter, colder, drier and much wetter. Also on the island of Terschelling, wedged between its own dune water, fresh and salt, and the sea, north and south.	<i>The water problem on Terschelling is the model for global challenges: clean water, fresh water for agriculture, processing/ reuse of waste water.</i>	- Birgitta Kramer (Vitens) - Joca Jansen (Wetterskip Fryslan) - Cees Buisman (Wetsus) - Moderator: Oeds Bijlsma (Wetterskip Fryslân)
11.15 - 12.45	Doops-gezinde Kerk	Water & Oceans	<b>V7. The battle for the North Sea: Proteins, Ecology and Energy</b> For centuries the North Sea was a battle scene, for Frisians, Vikings, Spaniards, English and Dutch. The bottom is littered with wrecks, also of aircraft. Wind farms, shipping channels, fishing, networks and pipelines are getting in each other's way. The conflicting ambitions require a new course.	<i>The use of the North Sea is changing. It is perhaps the biggest change since the North Sea flooded after the last ice age. New users, summarised as Proteins, Ecology and Energy, compete for space. What the North Sea itself wants is not always clear – the sea loves shipwrecks. The goal of good co-use needs to be a healthy environmental condition. In a panel discussion the members sketch their ideal North Sea in 2030. The audience acts as conscience.</i>	Panel discussion: - Manon van Beek (TenneT) - Pim Visser (VisNed) - Floris van Hest (SDN) - Eef Brouwers (Zeewierboerderij)
11.15 - 12.45 	Westend Theater	Mobility & Transport	<b>V8. Hotter, dryer, wetter and violent storms. That is 2050.</b> The weather is of great influence, not only on the safe and proper functioning of mobility & logistics. It has an effect on the performance of transport, on concessions and ultimately on all other sectors and therefore on the economy. We explored this last year, now we go further: what does this mean for infrastructure and users?	<i>The 2050 NAS scenario is used to consider Mobility and Transport. Hotter, dryer, wetter, etc., and the adjustments to the infrastructure. On the sub-agenda are questions around changing the stress on transport, i.e. space, land use and CO<sub>2</sub> reduction. And the elephant in the room: aviation escaping drastic measures.</i>	- Ian Dunlop (Climate Change Advisor) - Carola Wijdogen (NS) - Marc Bras (BMW) - Moderator: Bertus Tulleners
11.15 - 12.45	Westerkerk <b>SEMI-PLENARY</b>	Leadership	<b>V9. Orion, the course, the navigation channel, the buoyage, the captain</b> We listen to people who have made the difference. Maurice Oostendorp took over the helm of the nationalised SNS Bank, and turned it into De Volksbank ('the people's bank'). Koen Overtoom is navigating the Amsterdam Port Authority to a green future at full speed. Annemieke Nijhof became the anchor of the adrift engineering company Tauw.	<i>Jort Kelder interviews three leaders who have made the difference. They tell how they initiate sustainable change, remove obstacles and continue to follow their internal compass. Jort Kelder does not shy away from the difficult questions.</i>	- Maurice Oostendorp (Volksbank) - Koen Overtoom (Port of Amsterdam) - Annemieke Nijhof (Tauw) - Moderator: Jort Kelder
11.15 - 12.45	De Kraak	Resources & Circular Economy and Energy & Climate	<b>V10. Biomass: between the red and the green buoy</b> Biomass is essential for the future supply of energy and raw materials. The symbolic channel to a safe harbour has two boundaries: full use as fuel for a sustainable energy supply (the red buoy) or full use as a raw material for a circular economy (the green buoy). This discussion is delaying the progress we need. We show that biomass is needed for both functions, and search for scope for solutions and the relevant assessment framework.	<i>The economy, and therefore production, mobility and consumption, cannot do without solid carbons, so molecules next to electrons. Biomass has been used for centuries as fuel and raw material. About 15% of the agricultural land is used for this purpose. The market for biomass for the energy supply will develop autonomously, and the same goes for construction, chemistry and mobility. Bamboo is already being used in cars. Nevertheless, there is a lot of disagreement, in particular about the CO<sub>2</sub> balance and land competition.</i>	- Martijn Broekhof (VNCI) - Marieke van der Werf (Dr2) - Moderator: Sybren Bosch
11.15 - 12.45	Former soccerfield West (across from leders Plak)	Leadership	<b>V11. Orion and the wisdom of horses</b> Man has lived with animals for thousands of years. Cows, horses, donkeys, cats, dogs. In close connection, in deep friendship sometimes. You can learn a lot from animals. How to handle nature and instinct.	<i>Sandra Geisler helps leaders and teams to develop effective behaviour and thus to achieve desired results. In one session, by working with a horse and a unique change method. In this workshop Sandra explains the background and you can experience the change in practice.</i>	- Sandra Geisler (Lighthorse)

# FRIDAY 28 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
11.15 - 12.45	De Halve Maen, Gemeentehaven <b>EXCURSION</b>		<b>V12. Hudson meets Ockels – excursion to the Halve Maen and the Ecolution</b> In his last years, Wubbo built the <i>Ecolution</i> , the sustainable ship with which he sailed to Aruba. The ship was completed in 2015-2016-2017, now everything is as it should be. And it goes to the World Exhibition in Japan (2020) as an icon of <i>Dutch (Green) Designs</i> . Henry Hudson sailed in the wake of Willem Barentsz to the Arctic Sea, found ice there too, and ended in the mouth of the Hudson River (USA).		

## GENERAL

TIME	WHAT	DESCRIPTION	SPEAKERS & MODERATORS	LOCATION	THEME
12.45	Move	To the Betonningsterrein			
13.00 - 14.00	Galley	Lunch Distribution of the Departures			
14.00	Move	To the Departures			

# FRIDAY 28 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
14.15 - 15.45	Barn	Energy & Climate	<p><b>V13. Redesigning the energy system</b></p> <p>Our current energy system works according to the principle of 'you ask, we deliver': all the desired energy is always available at the times and in the quantities required. This will change radically, though. At present, only 15% of the final consumption consists of electricity. But electricity will be playing a much larger role in the energy supply – sun and wind – as well as in the energy demand - transport and heating.</p>	<p><i>Ben Voorhorst (Tennet) talks about the findings at one of the climate tables. Next, we will discuss the energy system and the consequences for the transition with the representatives of EnergieNederland and Gasunie and with the audience.</i></p> <p><i>The departure takes place at the Tapis d'Energie.</i></p>	<ul style="list-style-type: none"> <li>- Ben Voorhorst (Tennet),</li> <li>- Medy van der Laan (EnergieNederland)</li> <li>- Hans Coenen (Gasunie)</li> <li>- Gerard van der Steenhoven (KNMI)</li> <li>- Moderator: Hans Warmenhoven</li> </ul>
14.15 - 15.45	De Kraak	Resources & Circular Economy	<p><b>V14. Our empty port: materials for the energy transition</b></p> <p>Once the Club of Rome predicted the final exhaustion of raw materials. Some think we have been mistaken.</p>	<p><i>The objectives for the Climate and Energy Agreement have been defined. However, hardly any attention is paid to the raw materials needed to generate sustainable electricity. Solar panels and windmills contain many rare earth metals, such as tellurium and neodymium. In the attempt to realize the energy transition we encounter the limits in the availability of raw materials. Applying circular principles can help to keep materials available.</i></p>	<ul style="list-style-type: none"> <li>- Benjamin Sprecher (Universiteit Leiden)</li> <li>- Pieter van Exter (Metabolic)</li> <li>- Marian Hopman (Ministerie van EZK)</li> <li>- Marc Pruijn (Ministerie van IenW)</li> <li>- Moderator: Cécile van Oppen</li> </ul>
14.15 - 15.45	Geskieker	Food & Agriculture	<p><b>V15. Working meeting: redesigning agricultural and food policies</b></p> <p>For years, agriculture, the food supply and nature have been searching for a new common agenda. Put all players in a circle and you get no answers. The interests are huge, the objectives vary greatly. And everyone is trying to play their own game greener and in a more sustainable way. But there are limits to that. And new rules are needed.</p>	<p><i>We test each other's insights at different tables. What are the key factors and where do we disagree? On that basis we can redesign rules. Let the farmers be the policymakers for once. And the policy makers a social organization. And the industry knowledge supplier. With scientists as industrialists. Looking through each other's glasses helps to come up with new rules that will get us further.</i></p>	<ul style="list-style-type: none"> <li>- Inleiding: Lucas Simons (NewForesight)</li> <li>- Moderatoren: Jan Paul van Soest, Natascha Kooiman</li> </ul>
14.15 - 15.45	Grootduin (poor weather: Construction area Tonnenloods)	Nature	<p><b>V16. A new nature story 2. The dunes' dilemma</b></p> <p>Climate change is putting the coast to the test. There are not many dune coasts in the world. They originate only where sand banks have grown on the edges of shallow estuaries, old deltas. Behind these dunes are densely populated areas, which are more at risk than ever. At the same time, we also want to use the dunes for recreation, to live there, and collect drinking water from them. A different view is needed.</p>	<p><i>In this second departure in the nature triptych we listen to three inspiring stories about the changes in the landscape and the dune areas. Each speaker from his own desire and perspective. That can be quality of nature, or the experiences of residents. Or the perspective is that of the user (drinking water extraction). We investigate the frictions and what we all have in common, and create thus a new story for the dunes and the coast.</i></p>	<ul style="list-style-type: none"> <li>- Jan Bakker (bewoner Terschelling)</li> <li>- Tamara Bok (Staatsbosbeheer)</li> <li>- Georgette Leltz (Dunea)</li> <li>- Panel: Alex Datema (Boer &amp; Natuur), Johan Osinga (LNV), Koos Biesmeijer (Naturalis), Peter Drenth (Provincie Gelderland)</li> <li>- Moderator: Harm Ede Botje</li> </ul>
14.15 - 15.45	Ieders Plak, Zeezaal	Leadership	<p><b>V17. Orion in the land of the blind – Spirituality back in leadership</b></p> <p>Marieke de Vrij is a spiritual trendsetter and social counselor. She advises and 'reads' companies, CEOs, government and social organizations.</p>	<p><i>In this departure, Marieke de Vrij will treat the primordial feminine and masculine principles. She teaches us how lived action is a precondition for sustainable perspective and how we can ensure that what we learn at Springtide leads to real impact.</i></p>	<ul style="list-style-type: none"> <li>- Marieke de Vrij (De Vrije Mare)</li> </ul>
14.15 - 15.45	Doopsgezinde Kerk 	Energy & Climate	<p><b>V18. The need for a Climate Emergency Initiative</b></p> <p>At Geomar Climate Institute, the latest data indicate +5° C by 2100. This is a horror scenario. New, more, and even more plans are needed. Club of Rome co-president to announce it here.</p>		<ul style="list-style-type: none"> <li>- Ian Dunlop (Climate Change Advisor)</li> <li>- Anders Wijkman (Club of Rome)</li> </ul>

# FRIDAY 28 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
14.15 - 15.45	Groene Strand (poor weather: Construction area Tonnenloods)	Finance	<p><b>V19. From the air, into the ground: how to finance negative emissions</b></p> <p>The amount of CO<sub>2</sub> in the atmosphere is now large enough to reach the irreversible limit of +1.5 °C to +3 °C in 2050-2100. In the meantime, it will take years before we stop using fossil fuels at all. In the Netherlands we are working hard on the paradoxical task of spending hundreds of billions to stop 0.5% of the world's CO<sub>2</sub> emissions by 2050. The targets of gaslessness, solar panels and wind farms do not affect the current CO<sub>2</sub> density in the atmosphere, nor the emissions that are emitted every day until 2050 and long afterwards. That is what negative emissions are about.</p>	<p>CO<sub>2</sub> can be removed from the air in many ways: through reforestation or by increasing the organic matter content of agricultural land ('Carbon Farming') and of the soil in nature areas. The production of charcoal ('biochar') and storing it in the soil is another possibility, as is capturing and storing CO<sub>2</sub> from processes in which biomass is used as raw material or as fuel. Then there is Direct Air Capture, where installations remove CO<sub>2</sub> from the air directly, and the process of capturing CO<sub>2</sub> in rocks such as olivine, ie CO<sub>2</sub> mineralization. The question is how we can make all these solutions bankable. And how we can ensure that they will actually be implemented. ASN Bank is working on climate-positive business practices and tells us how they do that.</p>	<ul style="list-style-type: none"> <li>- Piet Sprengers (ASN Bank)</li> <li>- Leo Meyer (CC-C, klimaatwetenschapper)</li> <li>- Itske Lulof (Triodos Bank)</li> <li>- Marcel Beukeboom (Klimaatgezant Nederland)</li> <li>- Moderator: Anita de Horde</li> </ul>
14.15 - 15.45	Ecolution	Mobility & Transport	<p><b>V20. The Elephant in the room: the cargo transport that does not meet Paris</b></p> <p>Worldwide freight transport will triple until 2050. With an increase in CO<sub>2</sub> emissions of 120%. The Paris Agreement requires efficiency gains by a factor 6 for transport and logistics. This is the elephant in the room! After all, you cannot cheerfully strive for great CO<sub>2</sub> targets for 2050 while ignoring these extremities. By 2050-2100 there will be synthetic low-carbon kerosene on the market and part of the shipping will be powered by LNG. The largest ships may even have small nuclear reactors, such as modern submarines and American aircraft carriers. Until then, we must make CO<sub>2</sub> compensation mandatory. Travelers who pay, transport companies that are legally obliged to compensate. The resistance is enormous. And yet it will happen.</p>	<p>We look the elephant straight in the eye and discuss the measures that are actually taken. And what needs to be done to achieve the most sustainable transport system possible.</p>	<ul style="list-style-type: none"> <li>- Jeroen van Heijningen (Goodfuels)</li> <li>- Ruud Melieste (Port of Rotterdam)</li> <li>- Moderator: Elfriede van Galen</li> </ul>
14.15 - 15.45 	Tonnenloods <b>SEMI-PLenary</b>		<p><b>V21. College Tour</b></p> <p>We are greatly honoured to have with us many who are making the difference. Call them heroes, or dissidents, or visionaries, or explorers. What they have in common is that they swim against the current, in order to find the source. What it demands is known from history. Courage. Imagination. But there is more.</p>	<p>Harm Edens interviews three striking personalities; Frank Elderson (DNB), Captain Charles Moore (The Great Pacific Garbage Patch) and Sandrine Dixson-Decleve (Senior Advisor Interel, Co-Founder WECAN). The students of the Springtide Academy and the young professionals of the Energy Boat ask critical questions.</p>	<ul style="list-style-type: none"> <li>- Frank Elderson (DNB)</li> <li>- Captain Charles Moore (Great Pacific Garbage Patch)</li> <li>- Sandrine Dixson-Decleve (Interel, international expert on climate change)</li> <li>- Presenter: Harm Edens</li> </ul>
14.15 - 15.45 	Westerkerk	Innovation	<p><b>V22. The Rainbow: Not so perpetual motion</b></p> <p>At the end of the Rainbow you will find a pot of gold. Inventors, entrepreneurs and treasure hunters are looking for that gold (money), or Investments. The Innovation theory states that we can innovate away from the crisis. That is largely true. The ingenuity of man seems limitless.</p>	<p>The Rainbow Program deals with 9 sustainable, socially relevant innovations that have great ambition and potential in the field of sustainability in general and in realising the climate goals in particular. It is up to the jury and the audience if they agree. And it's in the safe hands of Jort Kelder and Jolande Sap to do that flashy and sharp.</p>	<ul style="list-style-type: none"> <li>- Moderator: Jort Kelder</li> </ul> <p>Check the innovations on <a href="http://www.springtij.nu/regenboog2018">www.springtij.nu/regenboog2018</a></p>

# FRIDAY 28 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
14.15 - 15.45	Bunker-museum Tigerstelling	Nature	<p><b>V23. From one planet thinking to one planet acting: Limits revisited</b></p> <p>Companies have been making efforts to address sustainability challenges. However, these efforts rarely consider the finite capacity of the planet. Inspired by the planetary boundaries proposed by Johan Rockström, One Planet Thinking is helping companies to define sustainable targets that are in line with the carrying capacity of ecosystems.</p>	<p><i>We investigate how to set targets that are in line with the carrying capacity of ecosystems and explore the leading examples of companies that already put One Planet Thinking into action.</i></p>	<ul style="list-style-type: none"> <li>- Greet van der Heyden (Alpro)</li> <li>- Eva Gladek (Metabolic)</li> <li>- Dirk Bijl de Vroe (Stedin)</li> <li>- <i>Moderatoren:</i> <ul style="list-style-type: none"> <li>Romie Goedicke (IUCN NL)</li> <li>and Jorien van Hoogen (WNF)</li> </ul> </li> </ul>
14.15 - 15.45	Start in front of the Tonnenloods <b>EXCURSION</b>	Mobility	<p><b>V24. Bike away with me</b></p> <p>Terschelling is a beautiful island to explore by bike. And you'll get much further on an electric one. And see more. So, take one of the xx electric bikes and join this Springtide bike tour that we laid out together with the Ministry of Infrastructure and Water Management and the Tourist Office of Terschelling. A guide talks about the nature and culture of the island. While cycling we discuss how we can make commuting more sustainable. For example, by placing the electric bicycle for commuting even higher on the agendas of both employer and employee.</p>		<ul style="list-style-type: none"> <li>- Henny de Jong (Ministerie van IenW)</li> <li>- Arlette van Gilst (Ministerie van IenW)</li> <li>- A guide from the Tourist Office Terschelling</li> </ul>
14.15 - 15.45	De Halve Maen, Gemeentehaven <b>EXCURSION</b>		<p><b>V25. Hudson meets Ockels – excursion to the Halve Maen and the Ecolution</b></p> <p>In his last years, Wubbo built the <i>Ecolution</i>, the sustainable ship with which he sailed to Aruba. The ship was completed in 2015-2016-2017, now everything is as it should be. And it goes to the World Exhibition in Japan (2020) as an icon of <i>Dutch (Green) Designs</i>. Henry Hudson sailed in the wake of Willem Barentsz to the Arctic Sea, found ice there too, and ended in the mouth of the Delaware River (USA).</p>		

# FRIDAY 28 SEPTEMBER

## GENERAL

TIME	WHAT	DESCRIPTION	SPEAKERS & MODERATORS	LOCATION	THEME
15.45	Move	To the Betonningsterrein			
16.00	Galley	Coffee Distribution of the Departures			
16.45	Move	To the Departures			

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
17.00 - 18.30	Dorpshuis Ons Huis	Earth Limits	<b>V26. Limits from raw materials and biodiversity</b> Limits to Growth (Club of Rome, Meadows) calculates that we can feed no more than 2 billion mouths by 2050. The production of food stagnates due to climate change and shortages of water and raw materials. Follow-up book 2052 (Randers) comes to 4 billion people. That means that all known ideas, values and plans are put aside.	<i>The solutions are countless. These arise mainly from the old way of thinking. Numerous adjustments that were not used for the hot countryside of 2025-2050 and beyond.</i>	<ul style="list-style-type: none"> <li>- Wouter van der Weijden (CLM)</li> <li>- Gijs Kuneman (CLM)</li> <li>- Wieteke Willemen (Universiteit Twente)</li> <li>- Martin Lok (Ministerie van LNV)</li> <li>- Mark van Oorschot (PBL)</li> </ul>
17.00 - 18.30	Buurt- vereniging Nieuw West	Nature	<b>V27. Zooming in on the bees</b> A lot of nature is disappearing as a result of monocultures and the construction of cities and roads. Yet, all in all, there are some 700,000 hectares of forest, heath, swamp, lake and dune. In that nature, bacteria, fungi and insects provide all mutual control mechanisms. Recent research shows that 70% of the insects have disappeared. We are heading for a Silent Spring in 2020.	<i>The insect mortality and the loss of biodiversity are cause for alarm and urgent emergency measures. Which are being taken. In addition to the national Nature Pact, a Delta Plan for Biodiversity Restoration is being prepared. There is a national bee strategy and the 'Nederland Zoemt' project. We look at what companies can do in the field of ecological land management in favour of biodiversity and ensure that the list of actively participating organizations grows. Koos Biesmeijer takes us to the special world of bees.</i>	<ul style="list-style-type: none"> <li>- Koos Biesmeijer (Naturalis)</li> <li>- Dorien Ackerman (Natuur &amp; Milieu)</li> </ul>
17.00 - 18.30	Ieders Plak, Boszaal	Energy & Climate	<b>V28. Not In My Back Yard</b> The Small Fields Memorandum of the Ministry of Economic Affairs and Climate Policy states more or less the following. The person addressed is the citizen. (This is our paraphrase). - You do not want windmills near your home.' 'And no solar farms in the landscape.' 'You do not accept pipelines and electricity cables in the area.' 'You no longer want coal, oil and gas.' 'And therefore no drilling rigs. Not even for geothermal energy.' 'You want the boiler out of the house and a gasless neighbourhood.' No politician can solve this diabolical dilemma. The citizen wants everything and refuses everything at the same time.	<i>There are many energy projects that the local population has to deal with directly: gas from small fields, onshore wind energy, geothermal energy and large solar farms. All these projects struggle with local resistance, often motivated by concerns about quality of life, safety, property depreciation, etc. The problem is that no party is trusted. On the basis of TU Delft research, we discuss how we can view local resistance and how to deal with it. Real-life examples show the main dilemmas. In search of the success factors and preconditions for local acceptance.</i>	<ul style="list-style-type: none"> <li>- Theo Kockelkoren, (SODM)</li> <li>- Shannon Spruit (TU Delft)</li> <li>- Sef van der Elshout (DCMR)</li> <li>- Moderator: Marcel Hoenderbos</li> </ul>
17.00 - 18.30	Groene Strand (poor weather: Natuur- museum)	Innovation	<b>V29. Startup on the Beach</b> Six innovative startups present their ideas and challenges. Springtide participants help them to get further.		Check the startups on <a href="http://www.springtij.nu/startuponthebeach">www.springtij.nu/startuponthebeach</a>

# FRIDAY 28 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
17.00 - 18.30	Ieders Plak, huiskamer-café	Energy & Climate	<p><b>V30. Play a game with us, seriously</b></p> <p>Not Monopoly but bitter negotiations about the unexpected effects of decisions. Exciting and surprising. In such games players take decisions that usually turn out quite differently from what they expect.</p>	<p><i>In the CO<sub>2</sub> Serious Game we take the role of industry and experience the dilemmas on the route to a CO<sub>2</sub>-free economy in 2050. What happens when the CO<sub>2</sub> price goes up? And if you invest in a new development? What influence does your subsidy have?</i></p>	<ul style="list-style-type: none"> <li>- Game host: Kirsten Kramer (Gemeente Terschelling)</li> <li>- Expert Host: Peter Alderliesten</li> </ul>
17.00 - 18.30	Betonnings-terrein (poor weather: Spuiterij, Tonnenloods)	Mobility & Transport	<p><b>V31. The blinkered view – daily driving and increasing emissions</b></p> <p>The transport sector wants to emit less CO<sub>2</sub> in 2030-2050, and mainly relies on the electric car. A goal with blinkers on, because the thing has a rather heavy negative footprint. The next congestion is coming, with crowded roads full of faltering electric cars, failed hydrogen trucks and overcrowded cities. So, full speed ahead, we do not see the iceberg on the horizon. Billions of travelers who have to get out of the car, and off the plane (while aviation does not participate in the Paris Agreement). A sector with a blinkered view, in confusion, but with perhaps some good ideas, you never know.</p>	<p><i>The outcome of the Climate Table on Mobility is the starting point for further discussion regarding passenger mobility and CO<sub>2</sub> emissions. The need for covenants with various parties is obvious. A next step is consultation between employers and employee organizations. KLM's VKP trade union makes proposals for a green collective labour agreement. That is a revolution, but it also raises questions. Will CO<sub>2</sub> become exchangeable for, for example, salary?</i></p>	<ul style="list-style-type: none"> <li>- Frans Versteeg (Forgood)</li> <li>- Gerben Meijer (Eneco)</li> <li>- Hans de Boer (VNO-NCW)</li> <li>- Elske de Jong (Arcadis)</li> <li>- Willem Jelle Berg (CNV)</li> <li>- Moderator: Elfriede van Galen</li> </ul>
17.00 - 18.30	Ieders Plak, Zeezaal	Leadership	<p><b>V32. Orion of the soul and courage</b></p> <p>Dark and light are the magical power of Terschelling. Here you can still see the stars, the darkness is total. And the light is dazzling.</p>	<p><i>Fred Matser talks about the dynamic balance between the functional female and male principles, which is the bearer of inner leadership. Backed up by music. For those who are looking for who they are on their green course.</i></p>	<ul style="list-style-type: none"> <li>- Fred Matser (Fred Foundation)</li> </ul>
17.00 - 18.30	Doode-manskisten (poor weather: Dorpshuis Ons Huis)	Finance	<p><b>V33. Are we going to keep our feet dry? Big money for small water projects</b></p> <p>We are certain that the world of 2018 will not be the same as that of 2050. The mean temperature will have risen 1.5°C to 2.0°C. One can hardly imagine what that means, it is too radical. Twenty years ago, the Room for the River program was designed to address flood protection. Drought is worse, though, since it literally undermines the soil. The Delta Commission reckons with +80 cm in 2100. We anticipate 2 metres. The consequences are enormous.</p>	<p><i>Not all socially beneficial things are a good financial investment. This also applies to water. Water should be high on the agenda of financial institutions. But there is little daring. While the risks of climate change mainly concern (fresh) water. Large system changes around the valuation of water are desperately needed. Financial institutions mainly look at investment costs and safe investment returns with an eye to pension payments. This has resulted in a system aimed at cost reduction, efficiency and upscaling, standardization and large financial investments. And that does not tie in with sustainable investments in water, local customization and small projects. How are we going to close that gap?</i></p>	<ul style="list-style-type: none"> <li>- Piet Klop (PGGM)</li> <li>- Jaap Feil (Water Footprint Implementation)</li> <li>- Lidwin van Velden (NWB Bank)</li> <li>- Moderator: Caroline van Leenders</li> </ul>
17.00 - 18.30	Groene Strand (poor weather: Tonnenloods)	Water & Oceans	<p><b>V34. Plastic Soup from a package</b></p> <p>Some 30 years ago Captain Charles Moore sailed across the Pacific on a rarely used course. There he encountered the Gyre, a sea full of plastics, circling as a giant whirlpool in the ocean. A Soup. The Captain's story is a thrilling one. He raised the emergency flag. May Day! May Day! The Soup is Global now, and so are the necessary solutions, but resistance is everywhere.</p>	<p><i>The plastic soup has been served; the worldwide plastic problem is widely discussed. Many solutions are suggested: from circular design to deposit money on small bottles and Ocean Cleanup. But there are many barriers on the road to real big changes.</i></p>	<ul style="list-style-type: none"> <li>- Captain Charles Moore (Great Pacific Garbage Patch)</li> <li>- Merijn Tinga (Plastic Soup surfer)</li> <li>- Bas Blom (Renewi)</li> <li>- Geanne van Arkel (Interface)</li> <li>- Stientje van Veldhoven (Ministerie van IenW)</li> <li>- Francis Zoet (The Great Bubble Barrier)</li> <li>- Moderator: Jort Kelder</li> </ul>

# FRIDAY 28 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
17.00 - 18.30	De Kraak	Innovation	<p><b>V35. The course towards the climate-neutral port</b> Europe's largest ports are just around the corner, in Groningen, Amsterdam and Rotterdam. Every fifteen minutes a full coal ship leaves for the European hinterland. Somebody wants to ban that, stating that it would serve the climate goals of these ports.</p>	<p><i>The ports of Amsterdam, Groningen and Rotterdam have many companies using and/or transshipping fossil fuels. For example, Amsterdam is important in the transshipment of kerosene and petrol and Rotterdam in coal. The Port Authorities want to be climate-neutral by 2050, and are looking for roads that are both commercially attractive and lead to climate-neutral ports. We listen to their plans and dilemmas.</i></p>	<ul style="list-style-type: none"> <li>- Koen Overtoom (Havenbedrijf Amsterdam)</li> <li>- Jaap Jelle Feenstra (Havenbedrijf Rotterdam)</li> <li>- Cas König (Groningen Seaport)</li> <li>- Moderator: Natasja van den Berg</li> </ul>
17.00 - 18.30	Doops-gezinde Kerk <b>SEMI-PLENARY</b>	Energy & Climate	<p><b>V36. The Sunny Outlook; Doubt Brigade 2.0</b> The professor Sickbock sells beautiful rose-colored glasses to the inhabitants of Rommeldam. Wear them, and you only see the good side of life. A blackened factory looks like a blossoming orchard. If you look at the Climate Agreement through the rose-colored glasses, you glimpse a very bright future. Wind and solar farms, hydrogen, batteries. Everything will be fine. And soon. But when we take off the glasses, the Limiting Factors take over: Technology, Time, Support base and Costs. And then it looks much less rosy.</p>	<p><i>In 2014, Jan Paul van Soest described in The Doubt Brigade the climate denial industry which ensures that doubt remains about climate change and therefore the need for a proactive climate policy. Has that effect disappeared or are there still forms of denial? And perhaps much closer? Jan Paul gives an introduction to that question, after which Paul Hohnen leads the debate with important players within the current energy and climate debate.</i></p>	<ul style="list-style-type: none"> <li>- Hans Warmenhoven</li> <li>- Introduction: Jan Paul van Soest</li> <li>- Moderator: Paul Hohnen</li> </ul>
17.00 - 18.30	Dorpshuis Ons Huis	Earth Limits	<p><b>V37. Limits to the food production: A new mission for Dutch agriculture</b> Limits to Growth (Club of Rome, Meadows) calculates that around 2050 we will only be able to feed 2 billion people. The food production is stagnating because of climate change and shortages of resources and water. Follow-up book 2052 (by Randers) gives a calculation of 4 billion people. That means that all the plans and ideas we've known so far need to be re-evaluated.</p>	<p><i>Means to stay within one limit, often causes another limit to get tighter. We will search for solutions and building blocks for a new mission for the Dutch Agriculture.</i></p>	<ul style="list-style-type: none"> <li>- Wouter van der Weijden (Centrum voor Landbouw en Milieu)</li> <li>Panel discussion with a.o. Louise Wilemen (UT) and representatives from PBL, LTO and LNV.</li> <li>- Moderator: Gijs Kuneman</li> </ul>
17.00 - 18.30	Start Tonnenloods <b>EXCURSION</b>		<p><b>V38. Pollination behind the drifting dune</b> Deeply hidden in their idyllic dune valley are the small gardens, where the islanders grow their vegetables. There are beehives. The beekeeper talks about the wonderful world of the honeybee.</p>		<ul style="list-style-type: none"> <li>- Oene de Jong (beekeeper)</li> </ul>
17.00 - 18.30	Strand paviljoen de Walvis <b>EXCURSION</b>		<p><b>V39. Across the Noordsvaarder</b> This walk across the Noordsvaarder (the most western part of the island) is for true enthusiasts. A challenging trip through a young and dynamic nature reserve. Discover the beach plains with brooding little terns, the drifting dunes and the high dune area that is becoming overgrown with buckthorn and creeping willow. High on the dune you have a great view. The entire dune area is in front of you and you look out over the North Sea and the sandbanks that are on their way to Terschelling. You may even encounter a seal.</p>		<ul style="list-style-type: none"> <li>- Jaap de Jong (Staatsbosbeheer)</li> </ul>

# FRIDAY 28 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
17.00 - 18.30	Start at the Betonnings-terrein <b>EXCURSION</b>		<b>V40. Water walk with Li An Phoa</b> Li An Phoa walked a thousand kilometres along the Meuse river this summer. From the source in France to the mouth in the North Sea. She wants to draw attention to her ideal of drinkable rivers. As we walk along the newly restored dune stream of the Green Beach, she talks about this Drinkable Rivers project and why rivers are an indicator of healthy living. She tells where the drinking water on Terschelling came and comes from. Near the mystical lake with the name of Doodemanskisten (Dead Men's Boxes), we focus on our own relationship with water.		- Li An Phoa (Spring College, Drinkable Rivers)
17.00 - 18.30	De Halve Maen, Gemeentehaven <b>EXCURSION</b>		<b>V41. Excursion: Ice story on board of the Halve Maen</b> People change the world. Helmsman Willem Barentsz from Terschelling was such a man. With sixteen others, he sought a north route to Asia. It did not work out as planned. Nancy Wiltink tells their story. In the ideal setting: the sister ship of the one with which they got stuck in the ice. Trapped. What now?		- Nancy Wiltink (Tuin aan Zee)
17.00 - 18.30 	Westend Theater <b>FILM</b>		<b>V42. The Rights of Nature</b> The documentary The Rights of Nature: A Global Movement tells the story of a growing environmental initiative in which natural areas are given legal status. For the film the team traveled to Ecuador, New Zealand and Santa Monica, California to learn how each of these locations have changed laws and mindsets to recognize the rights of nature.		- <i>Explanation and discussion:</i> Jan van de Venis (JustLaw)

## GENERAL

TIME	WHAT	DESCRIPTION	SPEAKERS & MODERATORS	LOCATION	THEME
18.30	Move	To the hotels			
19.45	On the road	Buses leave from the hotels and the Tonnenloods. People with own accommodations can get on the bus in front of Hotel Schylge.			
20.00	Follek!	The doors are always open on Terschelling. You do not ring the doorbell but you call 'Follek!' or 'Here I am!' Tonight we eat local fish and shellfish (and vegetarian dishes) under the starry sky of Oosterend.		Camping de Duinkant, Oosterend	
23.15	To bed	Buses back to the hotels. Enthusiasts get off at Café de Groene Weide in Hoorn. For music by Hessel and Tess. At 1.00 am a bus will take the partygoers back to the hotels.			

# SATURDAY 29 SEPTEMBER

## GENERAL

TIME	WHAT	DESCRIPTION	SPEAKERS & MODERATORS	LOCATION	THEME
8.00	Dawn	Departure from the hotels. Participants staying at Springtide Hotels can have their luggage transported to the port and pick it up later.			
8.30	All hands in the dunes	Welcome	- Natasja van den Berg		
8.30 - 10.00		<p><b>The Global Cycle of Climate and Resources</b></p> <p>William McDonough is the World's number one explorer of the new design, the forces of an in-depth revision of the economic system. It is the Circle Economy in the real sense, not another hype or recycling trick. Redesigning the economy is about the great change of plans, the need to revise the design, the materials, the use and the financing of production.</p>	- William McDonough (architect, Cradle to Cradle)	Zandafgraving Halfweg (poor weather: Tonnenloods)	
		<p><b>Climate Change and the Ticking Clock</b></p> <p>In 1992, John Schellnhuber created the Potsdam Institute for Climate Impact Research, now the World's leading think-tank, based in the heart of Physics, the laboratories on the Telegraphenberg in Potsdam. At the verge of his retreat, John is to lead us through his life in the age of climate change, with the World's leaders in view, and close to all recent conclusions and decisions.</p>	- John Schellnhuber (Potsdam Institute for Climate Impact Research)		
		<p><b>The Climate Tables and the big turnaround</b></p> <p>Transforming the whole of society, in less than 15 or 25 years, seems an impossible task. Yet some are hopeful and proud.</p>	- Hans de Boer (VNO-NCW) - Gertjan Lankhorst (New Energy Coalition) - Annemieke Nijhof (Tauf)		
		<p><b>On the threshold of the sustainable revolution</b></p> <p>After decades of hard work for a sustainable future, in which we too often encountered postponements, setbacks and disappointments, we have ended up in a totally new reality. All of a sudden, things are moving quickly now, much quicker than we hoped for. This offers unprecedented opportunities. A call to seize the new opportunities with both hands and to shape the sustainable revolution.</p>	- Diederik Samsom (politicus)		
10.00	Move	To the Betonningsterrein			
10.15	Galley	Coffee Distribution of the Departures			
11.00	Move	To the Departures			

# SATURDAY 29 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
11.15 - 12.45	Barn	Energy & Climate	<b>Z1. Springtide's Shadow Tables</b> Like Ed Nijpels' Climate Tables, Springtide's Shadow Tables are divided into Agriculture and land use, Mobility, Industry, Electricity and Built Environment. We add two tables: Finance and the Wooden table (the role of the forest).	<p><i>These Tables are Springtide's Situation Room. There are seven discussion tables, with a fixed group of people per table, who note, analyse and advise. You attend these debates as an audience. Each table has an empty chair for the audience.</i></p> <p><i>From all Departures you can email your findings and tips to this Situation Room via <a href="mailto:schaduwtafels@springtij.nu">schaduwtafels@springtij.nu</a>, or tweet them to @SpringtijNL, #Schaduwtafels</i></p>	<ul style="list-style-type: none"> <li>- Agriculture and land use: Marcel Schuttelaar</li> <li>- Mobility: Elfriek van Galen</li> <li>- Industry: John Grin</li> <li>- Electricity: Leo Meyer</li> <li>- Built Environment: Jan Coen van Elburg</li> <li>- Finance: Itske Lulof</li> <li>- Wooden table: Miriam van Gool</li> </ul> <p><a href="http://www.springtij.nu/schaduwtafels">www.springtij.nu/schaduwtafels</a></p>
11.15 - 12.45	Speelduin (poor weather: Brede School)	Resources & Circular Economy	<b>Z2. Circular start-ups: navigating along the rocks</b> Even though we know that resource efficiency has to become the heart of the sustainable economy, the winners still come mostly from the old economy.	<p><i>The number of start-ups focussing on a circular economy is growing. We know success examples such as Finch (wooden buildings) and Bundles (washing machines). In all these sectors, however, the large, existing players still dominate the market. There are countless start-ups and good ideas that did not make it, or that have trouble scaling up. Based on personal stories, we search at system level for the causes that make circular initiatives fail to get off the ground.</i></p>	<ul style="list-style-type: none"> <li>- Bert van Son (Mud Jeans)</li> <li>- Dirk Bijl de Vroe (Stedin)</li> </ul>
11.15 - 12.45	Ieders Plak, Huiskamer-café	Food & Agriculture	<b>Z3. Food en route!</b> In the current situation, none of the parties have sufficient influence and power to the push the agricultural- and food system to a next phase. Though, it might be possible to organise the context and networks in such a way that the transition to the next phase moves at a faster pace.	<p><i>At tables that each stand for a certain party (government, industry, NGO, financial institutions, research, entrepreneurs/innovators) we define the most important actions. After a plenary discussion, we see whether a pattern is emerging and whether passable routes take shape.</i></p> <p><i>We conclude with a Lunch of the Future, or as the cookbook of Francis Moore Lappé and Wouter van Dieren was once called: 'Eating from Mother Earth'.</i></p>	<ul style="list-style-type: none"> <li>- Introduction: Tjeerd de Groot (Tweede Kamer, D66)</li> <li>- Column: Marcel Schuttelaar (Schuttelaar &amp; Partners)</li> <li>- Moderators: Natascha Kooiman, Lucas Simons</li> </ul>
11.15 - 12.45	De Kraak	Innovation	<b>Z4. Shiny Steel from Sunlight</b> TATA-Steel wants to make the impossible possible. Production of steel requires coal or coke, and leads to (a lot of) CO <sub>2</sub> emissions. In theory, this can be done differently: capture CO from this emission and DOW will convert it into plastics. Fossil is replaced by CO and hydrogen will be added, from the North Sea wind farms.	<p><i>Cooperation between large energy- and material-intensive companies from different sectors is necessary to realize the ambitions in the field of climate and circular economy. At various locations in the Netherlands, companies from the chemical, energy and steel industries are seeking one another to work together on the climate-neutral and circular future.</i></p> <p><i>A special story by TATA and partners about how to reuse residual heat, produce hydrogen and implement CCS.</i></p>	<ul style="list-style-type: none"> <li>- Theo Henrar (Tata Steel)</li> <li>- Anton van Beek (DOW Chemical)</li> <li>- Moderator: Paul Hohnen</li> </ul>
11.15 - 12.45	Ecolution	Water & Oceans	<b>Z5. Navigating in the dark</b> In the old days, the skipper used to navigate on the star Orion and the Polar Star. In the late middle ages with the so called Amillaar, and later the sextant. The weather is bad, you see nothing, and yet you have to find the way.	<p><i>A crash course navigation will be given to a small group of participants on the Ecolution, by mariner Eelco. Navigating with a nautical chart of the North Sea + Compass + sextant + card passer. Lastly, leaders of this time will tell us how they navigate the darkness.</i></p>	

# SATURDAY 29 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
11.15 - 13.15 	Tonnenloods <b>SEMI- PLENARY</b>	Finance	<b>Z6. The end of short termism in finance</b> The short term is where you can make a profit now. The known is safe. Climate change and all that, well, we'll see. So other rules are needed.	<i>Institutions still mainly finance activities that have a negative impact on the climate. In order to reduce emissions, adapt to climate change and remove emissions from the air, it is however necessary to finance activities that contribute to the zero carbon economy. Supervision also is predominantly based on the old world, looking back instead of ahead. A debate about short versus long term choices, measuring climate impact, setting goals, stranded assets and the much needed greening of the financial system.</i>	- Stefan Brunnhuber (Endowed Professor for Psychology & Sustainability) - Frank Elderson (DNB) - Arie Koornneef (ASN Bank) - Kees Vendrik (Triodos Bank) - Bas Eickhout (Europarlementariër GroenLinks) - Marcel Beukenboom (Klimaatgezant Nederland) - <i>Introduction:</i> Wouter van Dieren (Club of Rome, Springtij) - <i>Moderator:</i> Caroline van Leenders
11.15 - 12.45	Dorpshuis Ons Huis	Finance	<b>Z7. Housing: the green debt burden</b> The climate agreement wants the housing stock to be climate-neutral a few decades from now. No more fossil resources. The costs amount to € 10,000 to € 50,000 per house, for 7 million homes. That's a problem. There are many ideas on to pay for this.	<i>Banks are busy with sustainability and their mortgage portfolios. The question is whether there are enough financial arrangements for homeowners who want to make their home more sustainable. Financial institutions should make it as easy as possible for homeowners to implement sustainability measures. Through attractive financing forms. But people are afraid of too high an indebtedness. In this departure we discuss whether this fear is justified and what financial arrangements convince sustainable homeowners. We also discuss the duty of care of financial institutions and how they can protect homeowners from over-crediting.</i>	- Sandra Schoonhoven (ING) - Jeroen Pels (Triodos) - Cindy van de Velde (Vereniging Eigen Huis) - Arie Blokland (Rabobank) - <i>Moderator:</i> Natasja van den Berg
11.15 - 12.45	Old soccer-field West (across leders Plak)	Leadership	<b>Z8. Orion and the wisdom of horses</b> Man has lived with animals for thousands of years. Cows, horses, donkeys, cats, dogs. In close connection, in deep friendship sometimes. You can learn a lot from animals. How to handle nature and instinct.	<i>Sandra Geisler helps leaders and teams to develop effective behaviour and thus to achieve desired results. In one session, by working with a horse and a unique change method. In this workshop Sandra explains the background and you can experience the change in practice.</i>	- Sandra Geisler (Lighthouse)
11.15 - 12.45	leders Plak, Zeezaal	Energy & Climate	<b>Z9. The sustainable island in Denmark</b> Springtide paid a visit to the island of Samsø in Denmark. The founding father of the sustainable energy model, Søren Hermansen, explains how he managed to ensure support. Investments by the cooperative, even extra income for the residents. The Wadden islands can learn something from it.	<i>An interview on film with Søren Hermansen, and a tour of the island. And the Energy Cooperative of Terschelling. How that works. Food for the other 250 local initiatives.</i>	- Hillebrand Jan Breuker (Provincie Noord-Holland, Grass2Grit) - Kirsten Kramer (Gemeente Terschelling)
11.15 - 12.45	Doops-gezinde kerk <b>SEMI- PLENARY</b>		<b>Z10. Insect mortality and yet again a buzzing spring</b> Climate change cannot be restored. A given Man does not know how to deal with: so far all destruction could be regenerated. Further decrease in numbers of insects can be avoided. Populations can be replenished. Apart from the extinct species. Biodiversity, nature, rich flora and fauna, they are no toys.	<i>Insect populations can recover. And relatively fast too, because their life cycle is relatively short. But only under positive conditions. Such as stopping with certain pesticides. A different approach to dealing with cultivated fields, roadsides, public gardens, and all that is green or should be. Recovery of plant, shrub- and tree layer. The examples will be shown and discussed.</i>	- <i>Speakers/panel:</i> Louise Vet, Koos Biesmeijer, Manon Tentij, Marjolein Demmers

# SATURDAY 29 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
11.15 - 12.45	Westerkerk <b>SEMI- PLENARY</b>	Leadership	<b>Z11. Governing an upset province</b> Natural gas in Groningen is a thing of the past, and that does not only mean more safety, but also more uncertainty. Industrial activities stop. Jobs disappear. Governing on the edge of the volcano.	<i>René Paas is the King's Commissioner in Groningen, where 60,000 people live in fear and uncertainty. Jaap Smit is Commissioner of the King in South Holland and was once a pastor. The Good Shepherd. And confessor to his colleague.</i>	- Jaap Smit (CvdK Zuid-Holland) - René Paas (CvdK Groningen)
11.15 - 12.45	Start Tonnenloods <b>EXCURSION</b>		<b>Z12. Pollination behind the drifting dune</b> We will visit a beautiful field. The beekeeper tells the story of bees as ideal partners for flowering plants. We take our bikes to visit a beautiful field.		- Oene de Jong (beekeeper)
11.15 - 12.45	De Halve Maen, Gemeente- haven <b>EXCURSION</b>		<b>Z13. Ice story on board of the Halve Maen</b> People change the world. Helmsman Willem Barentsz from Terschelling was such a man. With sixteen others, he sought a north route to Asia. It did not work out as planned. Nancy Wiltink tells their story. In the ideal setting: the sister ship of the one with which they got stuck in the ice. Trapped. What now?		- Nancy Wiltink (Tuin aan Zee)
11.15 - 12.45	De Walvis <b>EXCURSION</b>		<b>Z14. Mind and beach cleanup</b> Innovator, theatre maker and skipper Nienke Dijkstra takes us to one of the most beautiful places in the world: the mud flats. She makes us look differently at the world, the landscape and our place in it. In the meantime, we make that world a bit nicer and cleaner by collecting the plastic that unfortunately also washes up on the beaches of Terschelling. We work side by side with the environmental beachcomber of Terschelling.		- Nienke Dijkstra (Doe eens Wad) - De Milieujutter, Terschelling
11.15 - 12.45 	Westend Theater <b>FILM</b>		<b>Z15. The Rights of Nature</b> The documentary The Rights of Nature: A Global Movement tells the story of a growing environmental initiative in which natural areas are given legal status. For the film the team traveled to Ecuador, New Zealand and Santa Monica, California to learn how each of these locations have changed laws and mindsets to recognize the rights of nature.		- <i>Explanation and discussion:</i> Jan van de Venis (Just Law)

# SATURDAY 29 SEPTEMBER

## GENERAL

TIME	WHAT	DESCRIPTION	SPEAKERS & MODERATORS	LOCATION	THEME
12.45	Move	To the Betonningsterrein			
13.00	Galley	Lunch Distribution of the Departures			
14.00	Move	To the Departures			

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
14.15 - 15.45	Raadszaal, Gemeentehuis	Water & Oceans	<p><b>Z16. Climate and Water, much and little, where adaptation and mitigation go hand in hand</b></p> <p>We are certain that the world of 2018 will not be the same as that of 2050. The mean temperature will have risen 1.5°C to 2.0°C. One can hardly imagine what that means, it is too radical. Twenty years ago, the Room for the River program was designed to address flood protection. Drought is worse, though, since it literally undermines the soil. The Delta Commission reckons with +80 cm in 2100. We anticipate 2 metres. The consequences are enormous.</p>	<p><i>Both the climate problem and solutions are about water and sea. Our landscape must be arranged differently. Natural design of the river landscape can help shipping. More nature along rivers and delta makes us more climate-proof, captures CO<sub>2</sub> and increases our well-being. In search of innovation with multiple impact and the connection between adaptation and mitigation.</i></p>	<ul style="list-style-type: none"> <li>- Eva Gladek (Metabolic)</li> <li>- Maurits Groen (green entrepreneur)</li> <li>- Bas Roels (WNF)</li> </ul>
14.15 - 15.45	De Kraak	Energy & Climate	<p><b>Z17. The Hydrogen Roadmap</b></p> <p>Sun and wind energy are of no use when the sun does not shine and the wind is not blowing. Dark and calm. So we need more. In Portugal they keep gas-fired power stations stand-by. Elsewhere in the world, nuclear power plants are being built. Storage in batteries is an option, but the quantities are incomparable. In the Netherlands alone you need millions of batteries to close the dark gap. Hydrogen is a good idea, but here too the required size exceeds our imagination. Hundreds of millions, billions, and many decades. Hence the urgent need for a road map.</p>	<p><i>Hydrogen could be a robust element in the energy transition because it is carbon-free. However, the use of hydrogen in industry, the built environment and mobility requires a system change. An important question is what is needed to promote the production and use of hydrogen.</i></p> <p><i>Under the guidance of Jorg Gigler of the Hydrogen Roadmap and experts, we explore this issue and work on a future vision for Hydrogen.</i></p>	<ul style="list-style-type: none"> <li>- Jorg Gigler (TKI Gas)</li> <li>- Jan Jaap Aué (Hanzehogeschool)</li> </ul>
14.15 - 15.45	Doopsgezinde Kerk 	SEMI-PLenary	<p><b>Z18. Industrial renovation in Europe</b></p> <p>In all our work we focussed on research, data, pledges and declarations, all on resource efficiency, redesign, mitigation and adaptation. We have hardly observed that out there, inside industry, major operations were underway. At the World Materials Forum (WMF) in Nancy (Fr) these industries exposed their imagination, intelligence, technology.</p>		<ul style="list-style-type: none"> <li>- Patrice Christmann (World Materials Forum)</li> <li>- Jean Francois-Poncet (Rondol)</li> </ul>
14.15 - 15.45	Barn	Energy & Climate	<p><b>Z19. The art of Adaptation</b></p> <p>The Netherlands Environmental Assessment Agency (PBL) has developed the NAS, the National Adaptation Strategy. The Dots Diagram. According to the criteria of Drier, Wetter, Hotter, Colder, and what influence does this have on all sectors of society. Climate change is happening, it cannot be stopped; that is the paradoxical conclusion of all that is being undertaken around the Eiffel Tower. The Paris Agreement.</p>	<p><i>Adaptation is felt as a defeat. You should not bury or extract CO<sub>2</sub>, but avoid emissions. That is true, but the laws of meteorology and physical chemistry are inexorable. And so Adaptation is a must. It is about reinventing the whole of society.</i></p>	<ul style="list-style-type: none"> <li>- Willem Ligtoet (Planbureau voor de Leefomgeving)</li> <li>- Madeleen Helmer (Klimaatverbond Nederland)</li> </ul>

# SATURDAY 29 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
14.15 - 15.45	Ieders Plak, Zeezaal	Resources & Circular Economy	<b>Z20. The open circular sea: the Netherlands and the world</b> The raw materials market is changing drastically. The new scarcity is a result of rapid changes in the sustainable economy. Even sand is becoming scarce ...	<i>Material scarcity is a problem on a global scale, we do not have to deal with it in the Netherlands alone. We do, however, have the ambition to make the Netherlands into a circular hotspot, enticing others to our way of thinking and doing. Bas de Leeuw shows us the context of material flows on a global level. Freek van Eijk pitches the ambition of Holland Circular Hotspot, and Marc Pruijn explains the Transition agendas and most recent developments in the Netherlands. This is the basis for a discussion about how to accelerate the transition in the Netherlands and how to share our insights from Springtide internationally.</i>	<ul style="list-style-type: none"> <li>- Bas de Leeuw (World Resources Forum)</li> <li>- Freek van Eijk (Holland Circular Hotspot)</li> <li>- Marc Pruijn (Ministerie van IenW)</li> <li>- Bas Eickhout (Europarlementariër GroenLinks)</li> </ul>
14.15 - 15.45 	Ieders Plak, Boszaal <b>SEMI-PLENARY</b>		<b>Z21. System Thinking on a global scale</b> The World is governed by a system which is called economics. It is clear that this is not a science but a value based philosophy. Economics is a limited tool, as it shuffles aside or ignores major variables and indicators, such as climate, resources, pollution and natural capital.		<ul style="list-style-type: none"> <li>- Harry Lehmann (Umweltbundesamt)</li> <li>- Harald Sverdrup (Professor, School of Engineering and Natural Sciences, Iceland)</li> <li>- Moderator: Paul Hohnen</li> </ul>
14.15 - 15.45	Ieders Plak, Huiskamer-café	Food & Agriculture	<b>Z22. Food: The Act of Terschelling</b> After many hours of debate, data and dilemmas, or 3 x D, you have to come to conclusions. Farm income, world trade, consumer demand, environmental laws, industrialization of food supply, raw materials, soil, climate - the challenges are excessive. The Act wants to be a conclusion. Like its example from 1594, the Act of Abjuration from the Netherlands to Phillips II, or a declaration of independence. A signal of pride and autonomy. A leading food nation such as the Netherlands must be able to give that signal.	<i>We examine the outcome of all Food departures. Is there a shared analysis and a shared vision? What routes are presented, can we work together, what are the roles and responsibilities? And how do we coordinate the transition? We conclude with a final declaration: the Act of Terschelling. Summarizing the conclusions reached during Springtide – State of the Food System – and how to get further.</i>	<ul style="list-style-type: none"> <li>- Conclusions: Jan Paul van Soest, Natascha Kooiman, Lucas Simons</li> </ul>
14.15 - 15.45	Schapenboerderij Halfweg	Nature	<b>Z23. A new nature story 3 – How to treat the peat</b> Underneath the vast green prairies of the Low Netherlands, Friesland and Northern Germany lies either clay or peat. The soils in these peat meadow areas are subsiding, together with houses and roads. In addition, they are sources of greenhouse gases. By nature they are wet, marshland. Which means rich nature. But they are just being drained too dry. Increase the water level, and you win 2% of the national greenhouse gas emissions. Which is a lot. But very difficult for the farmers. We have been poldering about the future of the peatlands for decades, but are hardly progressing. If we do nothing, we drown.	<i>The peat meadows are iconic for the Netherlands. Many people appreciate the open landscape. Agriculture is difficult in these areas because of high water levels. Peat meadows have a high value for nature and recreation. Hans vd Werf (Frisian Environmental Federation) talks about the challenges for peat meadow areas and what a new perspective for nature can look like. Matthijs Boeschoten (Commonland) asks whether an area-based, bottom-up approach is better than the current top-down approach. And what the benefits of this approach are for farmers, citizens and nature. This is the third and final departure in the nature triptych.</i>	<ul style="list-style-type: none"> <li>- Hans van der Werf (Friese Milieufederatie)</li> <li>- Matthijs Boeschoten (Wij.land)</li> <li>- Reflectie: Alex Datema (Boer &amp; Natuur), Coenraad Krijger (IUCN), Johan Osinga (LNV), Peter Drenth (Provincie Gelderland)</li> <li>- Moderator: Bertus Tulleners (The RockGroup)</li> </ul>
14.15 - 15.45	Brede School	Finance	<b>Z24. The role of banks in preserving biodiversity</b> Biodiversity is one of the 'planetary boundaries' that has already been amply exceeded. The loss of biodiversity is therefore one of the greatest threats to the future of humanity. With extremely high risks for the financial sector.	<i>In order to reverse this threat, companies and financial institutions need to map their impact on biodiversity and reduce their negative impact. And then ensure a positive contribution to biodiversity. How to do this and what is needed to do it, is the central question in this departure.</i>	<ul style="list-style-type: none"> <li>- Roel Nozeman (ASN Bank)</li> <li>- Wijnand Broer (CREM)</li> <li>- Louise Vet (NIOO KNAW)</li> <li>- Frank Elderson (DNB)</li> <li>- Martin Lok (LNV)</li> <li>- Moderator: Caroline van Leenders</li> </ul>

# SATURDAY 29 SEPTEMBER

## DEPARTURES

TIME	LOCATION	THEME	ATLAS	DEPARTURE	SPEAKERS & MODERATORS
14.15 - 15.45	Dorpshuis Ons Huis	Mobility & Transport	<p><b>Z25. CO<sub>2</sub> compensation: a must</b></p> <p>Travellers can compensate their kilometres by paying something extra. With that money, forests are planted. Does it really help? Probably not. For a substantial impact, the quantities of hectares of forest that need to be planted are staggering. Moreover, progress is held back by climate activists who are caught in the idea that you can solve everything with solar panels and wind turbines. What is necessary is CO<sub>2</sub> pricing, up to € 50 and more per ton, because this almost automatically leads to adjustments.</p>	<p><i>We explore CO<sub>2</sub> compensation as an essential final element in the energy transition. For industries such as aviation and shipping, CO<sub>2</sub> compensation is necessary in order to enable major steps in the short term. What does it take to propagate and promote CO<sub>2</sub> compensation?</i></p>	<ul style="list-style-type: none"> <li>- Henri Wientjes</li> <li>- Jos Cozijnsen (Emissierechten.nl)</li> <li>- Gerben Hardeman (ANVR)</li> <li>- Climate Cleanup</li> <li>- Moderator: Elfriek van Galen</li> </ul>
14.15 - 15.45	Westerkerk	Innovation	<p><b>Z26. The Rainbow: Not so perpetual motion</b></p> <p>At the end of the Rainbow you will find a pot of gold. Inventors, entrepreneurs and treasure hunters are looking for that gold (money), or Investments. The Innovation theory states that we can innovate away from the crisis. That is largely true. The ingenuity of man seems limitless.</p>	<p><i>The Rainbow Program deals with 9 sustainable, socially relevant innovations that have great ambition and potential in the field of sustainability in general and in realizing the climate goals in particular. It is up to the panel and the audience if they agree. And it's in the safe hands of Jort Kelder and Jolande Sap to do that flashy and sharp.</i></p>	<ul style="list-style-type: none"> <li>- Moderator: Jolande Sap</li> </ul> <p>Check the innovations on <a href="http://www.springtij.nu/regenboog2018">www.springtij.nu/regenboog2018</a></p>
14.15 - 15.45	Bunkers Tigerstelling	Leadership	<p><b>Z27. Orion in the dune valley, coaching in the dunes</b></p> <p>On a quest under the trees and in the dunes we find the wise men from the East, the pilots in the surf, the watchers in the crow's nest.</p>	<p><i>On this walk through the dunes you will meet Dutch top coaches. Each one of them will encounter your question from their own expertise.</i></p>	<p>Check for the available coaches on <a href="http://www.springtij.nu/leiderschap">www.springtij.nu/leiderschap</a></p>
14.15 - 15.45	De Halve Maen, Gemeente- haven <b>EXCURSION</b>		<p><b>Z28. Hudson meets Ockels – excursion to the Halve Maen and the Ecolution</b></p> <p>In his last years, Wubbo built the <i>Ecolution</i>, the sustainable ship with which he sailed to Aruba. The ship was completed in 2015-2016-2017, now everything is as it should be. And it goes to the World Exhibition in Japan (2020) as an icon of <i>Dutch (Green) Designs</i>. Henry Hudson sailed in the wake of Willem Barentsz to the Arctic Sea, found ice there too, and ended in the mouth of the Hudson River (USA).</p>		

# SATURDAY 29 SEPTEMBER

## GENERAL

TIME	WHAT	DESCRIPTION	SPEAKERS & MODERATORS	LOCATION	THEME
15.45	Move	To the Betonningsterrein Leave your bicycle there. Please do not lock it!			
16.00	Galley	Coffee			
16.30	Move	to the Barn			
16.45	All hands in the Barn	<p><b>On the Radar</b> For 75 hours, you have talked, listened, met people, experienced light and darkness, gained knowledge, shared concerns and made plans. You sail late tonight or tomorrow back to shore, where mankind is, and her woe, as Little Johannes says in the book by Frederik van Eeden (1887). Tonight you sit at the islander dining table in The Barn, but first there is The Concert.</p> <p>Not just music, but a narrative by Iris Hond, whose life history is about then, the dark times, and now, the music that enables you to look the future in the eye. Music, Art and Science, the roots of civilization. We acquire knowledge, learn facts, technique, ie Science. In a setting of Art, culture, nature, light and darkness.</p> <p>We award the Wubbo Ockels prizes, share the results afrom The Barn, the Shadow Tables, which will be brought to The Hague, and board the Ecolotion, which leaves as the Flagship of Hope. After that, the stage is for Iris Hond, storyteller and pianist.</p>	 <p>Iris Hond</p>	Barn	
18.30	Follek!	<p><b>Captains Dinner</b> The doors are always open on Terschelling. You do not ring the doorbell but you call 'Follek!' or 'Here I am!' The final dinner of Springtide takes place in The Barn.</p>		Tonnenloods	
21.00	To the boat	Farewell to the island, to the port, picking up the luggage and to the Springtide boat			
21.30	Departure	The Springtide boat leaves. Arrival in Harlingen around 22.15 pm			
22.30	Party	Party for those who stay and the Springtij team in Cafe Bras (Torenstraat 32). With a performance of the band Rose Hip.			