SCIENCE ISLAND KAUNAS

INTERNATIONAL DESIGN CONTEST

COMPETITION CONDITIONS

KAUNAS

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CONTENTS

NEMUNAS ISLAND, KAUNAS

FOREWORD

Over the last twenty years Kaunas, known formerly as an industrial centre and interwar capital of Lithuania, has reinvented itself as a diverse academic and business-focused city attuned to innovation and economic and cultural growth.

Designated as one of UNESCO's global creative cities, Kaunas is strategically positioned at the geographical centre of Lithuania. The city benefits from a delightful topography, sited at the confluence of two rivers, the Nemunas and the Neris, the Old Town nestled in a valley contrasts vividly with the new town elevated on a hill. Kaunas is one of the few cities in Europe that has a rich and concentrated heritage of interwar modernist architecture – and one that is unique in its blending of European and Lithuanian stylistic ideas.

And with no less than eight eminent universities, a perpetual supply of curious students and a supportive community of educators, entrepreneurs, specialist scientists, technologists, naturalists and environmentalists, Kaunas is positioned to continue its rapid growth as a centre of innovation and new thinking.

All of which (together with nearly three million Lithuanians living under an hour's drive away) contributes to the rationale for the new National Science and Innovation Centre – Science Island.

Science Island's aim is to inspire new audiences, young and old: fostering an enduring relationship with science and innovation, communicating knowledge and expanding understanding through hands-on activities and play.

Science Island will be a defining project for Kaunas. The initiative will bring together a constituency of educators and experts in science and innovation. It will continue Kaunas' exceptional architectural heritage, with the city sponsoring architecture of the highest quality. It offers an opportunity to crystallise Kaunas' emerging identity and commission design. And, above all, it speaks to the urgent challenge of creating buildings which are genuinely and inspirationally sustainable.

Scheduled to open in 2018, Science Island will unlock an important site with a naturally beautiful setting close to the historic Old Town.

We hope that you will be as inspired by the project as we are. The contest is open to all qualified architects – we very much look forward to reviewing the submissions.

Visvaldas Matijošaitis,

Mayor of Kaunas

PART ONE

PROJECT CONTEXT AND OUTLINE BRIEF

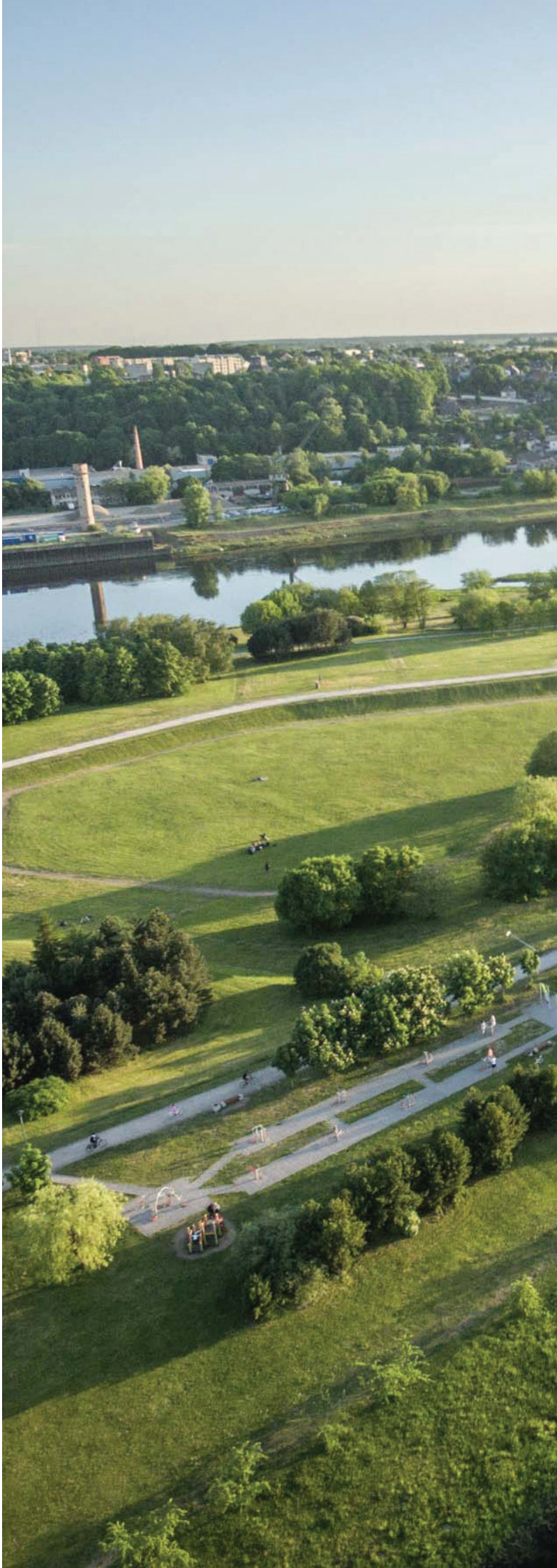
INTRODUCTION

This one-stage anonymous design contest seeks concept designs for Lithuania's new €25M National Science and Innovation Centre along with an urban integration plan for Nemunas Island.

The Science Island attraction is intended to further develop Kaunas' profile as one of the Baltic's key knowledge and cultural hubs and as an increasingly popular visitor destination.

Consistently ranked as Lithuania's best student city, Kaunas' lively atmosphere derives from the thousands of young people who are seeking higher education at its eight eminent universities. The availability of young, highly-skilled specialists along with the city's exceptional connectivity has attracted many innovative companies and businesses.

Lithuania, the largest of the Baltic States, has one of the fastest-growing economies in Europe and the world's highest ratio of science graduates per head of population. It is leading in a number of technologies, including internet communications and fibre optics.



NEMUNAS ISLAND, VIEW EAST

The Science Island initiative is a response to the success of international exemplar science centres, notably the Copernicus Science Centre in Warsaw, the Phaeno Science Centre in Wolfsburg, and the Experimentarium in Copenhagen, all of which have popularised science through hands-on enquiry and exposition.

Science Island's perspective on three interrelated scientific themes, *the Human, the Machine* and *Ecology/Nature*, will be framed by the future: the most likely outcomes for the world, alternative possible scenarios, and the extent to which each of us is part of that unfolding process. The project's overall aim is to foster and advance the development of science and culture in Kaunas, and in Lithuania as a whole.

The project is being developed in collaboration with all Lithuanian universities and many leading experts in science, biomedical engineering, and biotechnology. It will be managed in cooperation with the Ministry of Education and Science, and municipal Departments of Education, the Education Development Centre, STEM (Science, Technology, Engineering and Mathematics) centres and other educational institutions and Non-Governmental Organisations.

An initial feasibility study identified the 33 hectare Nemunas Island in Kaunas – with its central, accessible location, river views and green, open space – as the site for the planned National Science and Innovation Centre. The Island, which is owned by Kaunas City Municipality, is currently used as an outdoor recreational and leisure space within the city, and is also home to Žalgiris Arena, Lithuania's largest sports and entertainment arena. It is close to a number of visitor attractions, including the historic Old Town, Laisvės Avenue – notable for its numerous cafés, restaurants and cultural institutions – and the Akropolis shopping centre. A new concert and convention centre is planned on the south bank at Aleksotas.

A number of the project's partners and supporters operate from institutions which are within a few minutes' walk of Science Island. These include the principal faculties of the Vytautus Magnus University, Kaunas University of Technology and the Lithuanian University of Health Science, along with the Lithuanian Zoo, Tadas Ivanauskas Museum of Zoology, the Lithuanian Aviation Museum and the Museum of the History of Lithuanian Medicine and Pharmacy.

The project's total allotted building-related project cost is €25M, including taxes. The new Centre can be located anywhere within Nemunas Island, with a total site area of up to 13,000 square metres, which includes 9,000 square metres for the Science and Innovation Centre building.

The new Centre will include a mixture of permanent and temporary galleries, a virtual planetarium, an 'Experimentorium', research laboratories, a cafeteria, and a flexible events space. It is foreseen that circa 4,000 square metres of outdoor space around the Centre on the Island could be used as external exhibition space, creating an attractive green space in the city. Visitors to Science Island are anticipated to number circa 300,000 per year.

The architectural quality of the new Centre is a key project value, given Kaunas' architectural heritage. As the provisional capital of a newly-independent Lithuania in the interwar period, Kaunas experienced a cultural flowering as architects and engineers who graduated from Russian and European architecture schools created a unique concentration of Modernist architecture, drawing on international style tendencies – such as Bauhaus – as well as Lithuanian national styles.

The contest is being organised by London-based competition specialists Malcolm Reading Consultants (MRC). MRC's role in the competition includes writing the brief and competition materials, consulting with stakeholders, and ensuring absolute independence in the competition process.

As one of the key aims of the Centre is to promote visitors' active engagement with renewable energy, the jury will give special attention to the functionality, innovation and energy-efficiency of the design; this should achieve the best use of natural and renewable resources.

The competition is being run to the Design Contest Procedure and welcomes entries from all qualified architects. Three finalist practices will be selected at the conclusion of the competition, each receiving an honorarium of €15,000. These will enter into a Negotiated Procedure without Publication of a Contract Notice with Kaunas City Municipality, and one will be chosen by the Municipality as the preferred bidder.

Competitors' submissions must be sent to Kaunas to arrive no later than **14.00 GMT +3 Wednesday 14 September 2016**. Please allow plenty of time for your submission to arrive in Kaunas, as Kaunas City Municipality cannot consider your submission if it is received after the deadline.

MISSION

THE NATIONAL SCIENCE AND INNOVATION CENTRE'S MISSION IS TO:

1

Promote creative and innovative thinking – contributing to the increase of critical scientific thinking abilities of citizens of Kaunas.

2

Increase the scientific-cultural capital of Kaunas and Lithuania.

3

Match and exceed other regional popular Science Centres in content and reputation.

4

Lead in improving environmental awareness.

PROJECT AIMS

This international, anonymous contest seeks to identify outstanding designs that communicate the Science Island vision, integrate the latest environmental thinking and crystallise the emerging identity of Kaunas, creating a symbol of the city.

THE PURPOSE OF THE DESIGN CONTEST IS TO:

1. Develop an urban integration plan that identifies a suitable area on Nemunas Island for the new National Science and Innovation Centre and establishes a compelling setting and identity for the project;
2. Create a concept design for the new National Science and Innovation Centre.

THE DESIGN FOR THE NEW BUILDING SHOULD:

1. Be an exemplar of sustainability;
2. Sit comfortably within the Island and landscaped setting, retaining the Island's panoramic views;
3. Be an original and distinctive architectural composition which could become a symbol of the Island;
4. Fit naturally within the urban grain of Kaunas, located in this strategic position within the city;
5. Enhance the image of Kaunas, becoming a part of the city's identity;
6. Create harmony with the existing Arena, and develop a compositional relationship with the Naujamiestis and Aleksotas areas;
7. Consider routes through the Island to a potential new bridge link to the proposed concert and convention centre located on the south bank of the Nemunas River in Aleksotas.

NEMUNAS ISLAND AND RIVER, VIEW WEST

CONTEXT

LITHUANIA AND KAUNAS

Geographically the largest of the Baltic States, Lithuania is located on the eastern coast of the Baltic Sea and borders Latvia, Belarus, Poland and Russia (Kaliningrad). Throughout its history, it has established itself as an independent state.

The nation has the most diverse economies of the Baltic States and one of the fastest growing in the European Union, with an average real GDP growth of 2.5% over the past three years. It is rated first in the EU for ease of starting a business, and with incentives such as a 15% flat rate of corporation tax, and with seven areas (including Kaunas) designated as free economic zones (FEZ), it has attracted a diverse range of new and established businesses over the past six years; indeed, the community of foreign nationals living in Lithuania has grown five-fold since 2010.

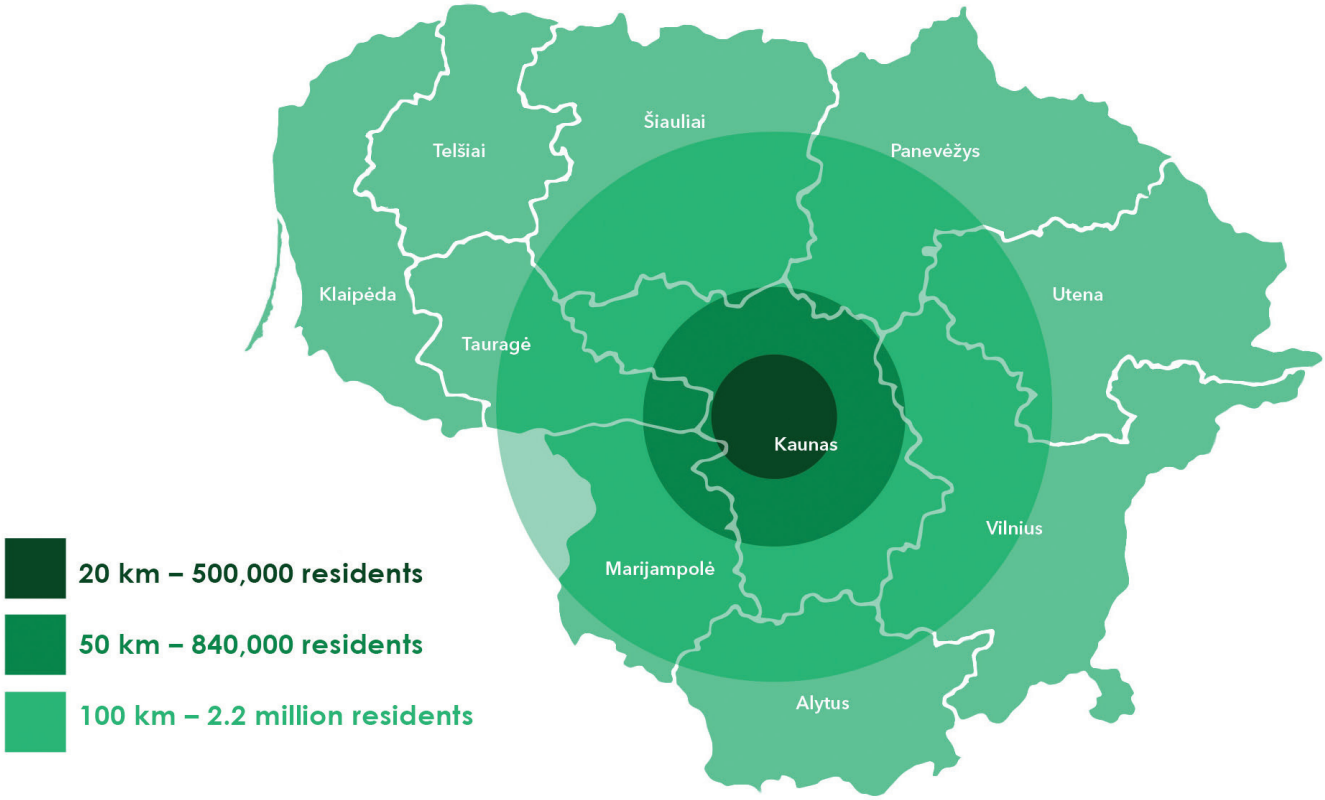
Science and technology are key elements of Lithuania's Progress Strategy, and it has already established itself as a European leader in fibre optic internet development, a world leader in the provision of public internet and communication technologies, and also in producing the highest number of science graduates relative to the general population.

Following a history of being 'Lithuania's merchant prince' – dominated by trade and industrial activity – Kaunas, Lithuania's second largest city, has recently gained a growing reputation as one of the Baltic's key knowledge and cultural hubs. Historically, it has played a significant role in national defence. From 1882 until the end of the First World War, it was surrounded by a ring of fortifications and batteries; Kaunas Castle is the most complete surviving example of this era.

With nearly 50 museums, a botanical garden, and Lithuania's only zoo, Kaunas is becoming an increasingly popular visitor destination. As Lithuania's leading academic city, it has an enviably vibrant atmosphere largely shaped by the 56,000 young people who are seeking higher education at its eight universities. The availability of young, highly-skilled specialists along with exceptional connectivity – most of Lithuania's nearly three million residents live less than an hour's drive away – has attracted an influx of innovative companies to the city.

In 2015, Kaunas was designated as a UNESCO Creative City and this year it will host a Design Week and Architecture Festival (KAFe).

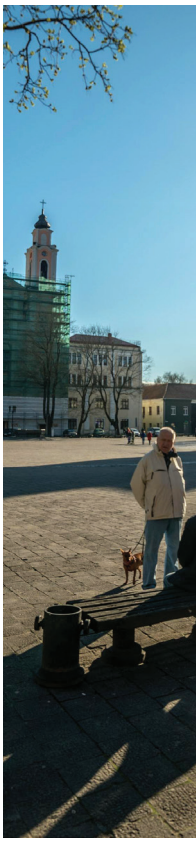
KAUNAS DISTANCE DIAGRAM



TOWN HALL SQUARE

NEMUNAS RIVERSIDE AT VYTAUTAS' THE GREAT CHURCH OF THE ASSUMPTION OF THE HOLY VIRGIN MARY

KARALIUS MINDAUGAS AVENUE




KAUNAS CASTLE

NEMUNAS RIVERSIDE AT VYTAUTAS THE GREAT BRIDGE


KAUNAS TOWN HALL

ARCHITECTURAL HERITAGE

As the provisional capital of a newly-independent Lithuania between 1919 and 1939, Kaunas saw rapid growth and investment. Russian and European architects and engineers flocked to the city, and the result was an extraordinary era of cultural creativity which gave Kaunas a remarkable legacy: a unique concentration of Modernist architecture, drawing on international style tendencies – such as Bauhaus – as well as the Lithuanian national style. This demonstration of architectural and visual flair was not unprecedented, as indicated by surviving examples of Gothic, Renaissance and Baroque buildings in the Old Town, all now part of Kaunas' rich heritage.

Key buildings include:

Central Post Office: The most significant functional building of interwar Lithuania, the Central Post Office is a vivid statement of national identity. Lithuanian themes are conveyed through the way the façade (which reminds visitors of local sandstone) has been worked, and the decorations around the windows and cement cornices bring to mind wooden folk sculptures. Construction began in 1930, which was designated as the Year of Vytautas the Great, and finished the following year.

Christ's Resurrection Basilica: A symbol of the nation's rebirth and independence, this is the most famous sacred building of Lithuania's interwar period. The architecture reveals an interaction between conservatism and modernity, combining the basilica-like volume of the structure with sharp, rectangular forms. Its tower rises to a height of 63 metres. In 1952 it was reconstituted as a radio factory before being restored to its religious uses in 1988. It underwent a period of rebuilding from 1989 to 2006.

Firefighter's Building: Built from 1929-30 in the Modernist style, with some decorative elements in the Art Deco style. The curved front of the Firefighter's Building was dictated by the practical need to maximise the space for fire engines, but was hugely influential in introducing architectural diversity and modernity to the New Town.

Kaunas Town Hall: Known as the 'White Swan', the Town Hall, dating from the 16th century, stands in the middle of the Town Hall Square in Kaunas' Old Town. At 53 metres, the building's tower is the highest structure in the district. Subsequent reconstructions include those of 1638 (Renaissance), 1771-5 (Baroque and Classicism), 1836 (where it was made residence for the Russian Tsars), 1973, and finally, 2005.

Kaunas Castle: Located strategically on a rise on the banks of the Nemunas River (near its confluence with the Neris) Kaunas Castle is currently a tourist attraction and art gallery. Archaeological evidence suggests that the Castle was originally built in the mid-14th century in the Gothic style, and today roughly one-third of the original structure still stands.

Kaunas State Theatre: The first municipal Theatre, of which few signs remain, was built in 1891. The reconstruction from 1922 to 1925 gave the Theatre its Neo-Baroque centre, which exemplifies the style of national architecture during this period. All of the interior ornamentation, stylised in the Art Deco style, followed the traditions of Lithuanian woodcarving. An expansion in 1930 created a new façade on Kestusis Street, which has elements of Modernist architecture.

Military Museum of Vytautas the Great: Originally planned as a 'museum of museums', the construction of the Military Museum was one of the most important architectural events of interwar Lithuania. With its harmonious interaction between tradition and modernity, it arguably represents the specific character of Kaunas' interwar architecture in the best and most clear way, with spaces and plans being structured to emphasise compositional axes and symmetry.

St Michael the Archangel Church: Located at the eastern end of Laisvės alėja, this Roman Catholic Church was built between 1891 and 1895, when Lithuania was part of the Russian Empire. It is notable for its size – designed to accommodate 2,000 worshippers – and unusual architecture, which employs triple Corinthian columns in an otherwise typical Neo-Byzantine five-dome design.

RESIDENTIAL HOUSE AT S. DAUKANTO ST. 14, © GINTARAS CESONIS BALCYTIS

CHRIST'S RESURRECTION BASILICA INTERIOR, © GINTARAS CESONIS BALCYTIS

MUSEUM OF VYTAUTAS THE GREAT,
© GINTARAS CESONIS BALCYTIS

CHAMBER OF AGRICULTURE BUILDING, © GINTARAS CESONIS BALCYTIS

KAUNAS UNIVERSITY OF TECHNOLOGY CHEMICAL TECHNOLOGY FACILITY, © GINTARAS CESONIS BALCYTIS

MINISTRY OF JUSTICE AND PARLIAMENT, © TOMA LAPATA

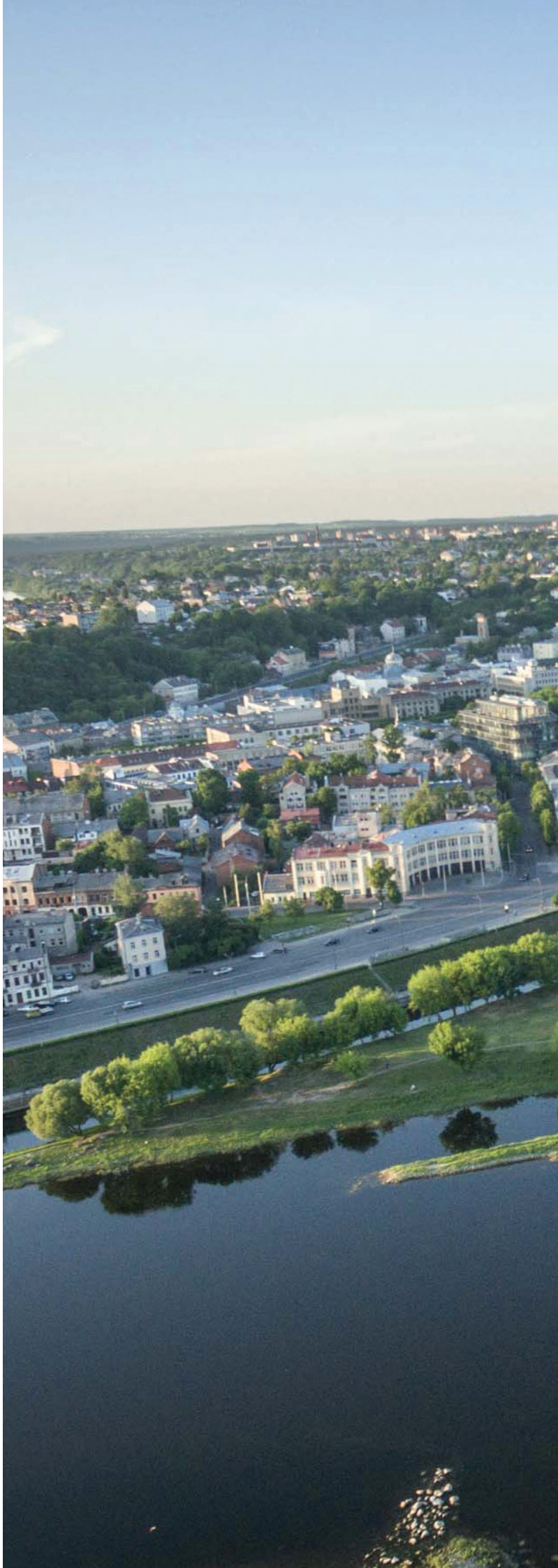
THE SITE CONTEXT

NEMUNAS ISLAND

In January 2016 a Working Group established by the Ministry of Science and Education gave their recommendation to site the National Science and Innovation Centre at Nemunas Island. The 33 hectare island is located on the Nemunas River in the heart of Kaunas, in close proximity to the popular visitor areas of the historic Old Town, Laisvės Avenue – notable for its numerous cafés, restaurants and cultural institutions – and the Akropolis shopping centre.

The Island, which is owned by Kaunas City Municipality, is currently used as an outdoor recreational and leisure space within the city, where visitors enjoy activities such as walking, volleyball, and to enjoy the panoramic views around the city and its landscape. It is also home to Žaligiris Arena, Lithuania's largest sports and entertainment arena, which opened in 2011.

Competitors should also note that the Science and Innovation Centre is anticipated to be the final building planned for Nemunas Island, and the area will remain a recreational zone for use as Kaunas' citizens desire.



NEMUNAS ISLAND AND CENTRAS

THE COMPETITION AREA

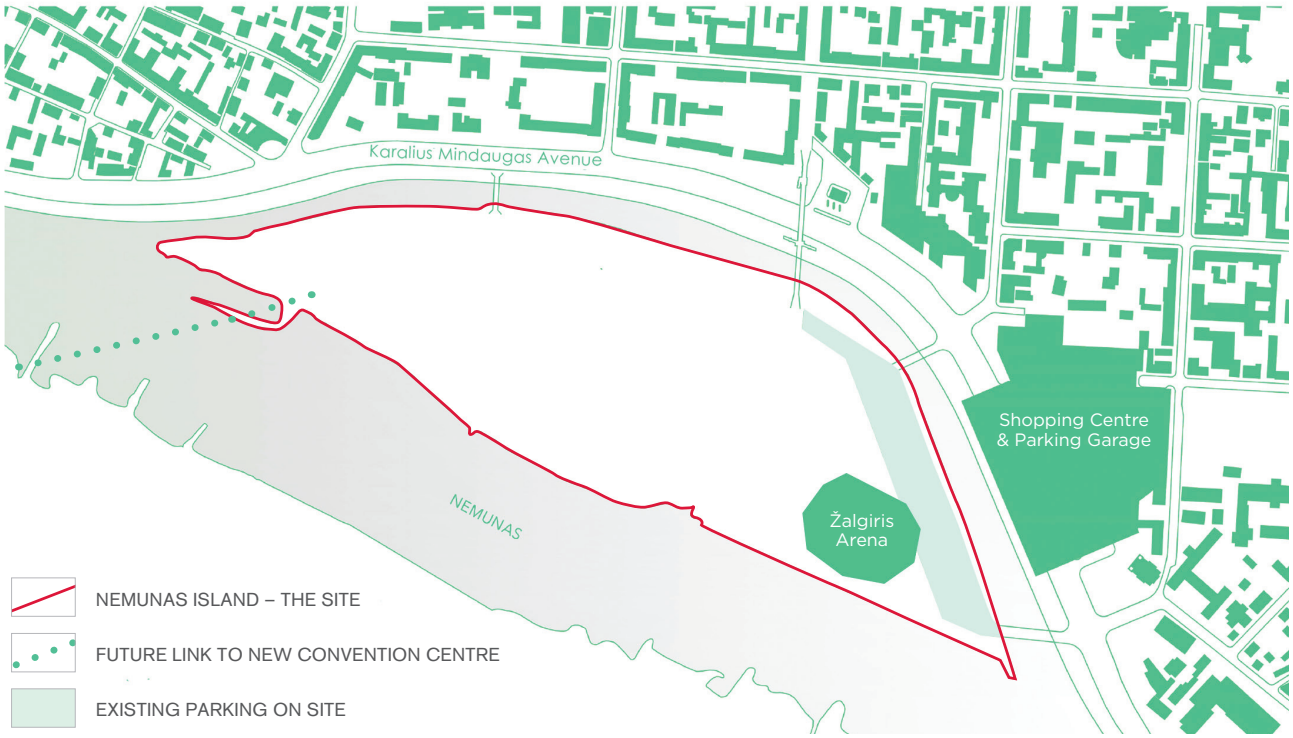
The Science and Innovation Centre can be located anywhere within Nemunas Island, and it is permitted for concept designs to connect to the island's surrounding territories, e.g. stepping into the river. The siting of the building, and its related facilities, should be considered at two key scales: at the level of the city, demonstrating how the building fits into the wider existing and potential future urban context of the city of Kaunas; and at the level of the Island itself. As part of their submission (see page 66 for details) competitors are asked to illustrate how their design fits in its context and to provide an urban integration plan for the whole Island.

Competitors should consider carefully where they site their building, taking the following into account:

- Information contained in this, the Competition Conditions, including supporting technical information within the annexes. An example would be taking into account the location of existing incoming services.
- The Žaligiris Arena, also located on Nemunas Island at its eastern end, will remain operational. The new Science and Innovation Centre should not affect the functioning of the Arena and its supporting requirements and facilities, such as access, servicing and parking.
- The location of the existing pedestrian and vehicular bridge links between the Island and the city.
- The potential likely location of any new pedestrian bridge link between Nemunas Island and the proposed new convention centre on the south bank of the Nemunas River.

The diagram opposite highlights some of these issues and constraints.

ISSUES AND CONSTRAINTS



CLIMATIC CONDITIONS

Lithuania's climate can be described as a typical European continental-influenced climate. It is characterised by seasonal weather changes and has become warmer in recent decades.

The average annual temperature in the whole territory is 6.5-7.9° C. The warmest month of the year is July (with an average temperature of about 19.7°C, and a maximum of over 30°C), and the coldest is January (with an average temperature of about -2.9°C, and a lowest temperature during occasional severe frosts of below -30° C). Heavy snowfall or even snowstorms are also possible on some days.

The weather is often breezy and humid due to the proximity of the Baltic Sea.

The most rainfall is recorded from April to October (60-65% of annual rainfall). Heavy rains are common nearly every summer with precipitation exceeding 30mm per day.

BUILDING PROGRAMME

THE SCIENCE AND INNOVATION CENTRE

The Science and Innovation Centre complex will be up to 13,000 square metres in size. The Science and Innovation Centre building is anticipated to be 9,000 square metres, with an additional 4,000 square metres for external space associated with the Centre, including for public access and threshold, visitor amenities and outdoor exhibits.

The proposed building footprint for the Science and Innovation Centre is anticipated at 5,000 square metres with a maximum permissible height above typical island surface level of 25 metres.

The breakdown for the building program requirements of the project is provided in the area schedule below and described in the subsequent pen portraits of each space.

Note: The area schedule and description of spaces is provided for guidance only. Competitors are encouraged to think creatively, and provide their own interpretation of the building program, and associated area requirements, where deemed appropriate.

AREA SCHEDULE

Please also refer to the Spatial Adjacencies diagram on page 47.

AREA SCHEDULE*

SPACE TYPE		SPACE TYPE AREA (M^2)	BREAKDOWN	BREAKDOWN AREA (M^2)
FRONT OF HOUSE		950	Entrance Hall (including orientation space)	600
			Information Centre/Reception/Ticketing	30
			Security	20
			Cloakrooms	200
			Sanitation facilities	85
			First Aid Room	15
VISITOR AMENITIES	RETAIL SPACE	150	Science Centre souvenir shop	110
			Shop office	10
			Shop storage	30
	FOOD & BEVERAGE	500	Cafeteria	265
			Refreshment stations	20
			Sanitation facilities	65
			Main Kitchen	120
			Kitchen storage	30
TEMPORARY GALLERIES		700	Introductory Space	100
			Main Space	600
PERMANENT GALLERIES		2,450	Introductory/Show Space	200
			Gallery 1 - 'Human'	750
			Gallery 2 - 'Machine'	750
			Gallery 3 - 'Nature/Ecology'	750
EVENT SPACES		1,000	'Black Box' flexible space	250
			'Virtual' Planetarium	300
			Research Laboratories	250
			Experimentorium	200
BACK-OF-HOUSE	STAFF SPACES	770	Office space	540
			Meeting Rooms	65
			Copy/Resource Room	15
			Local archive storage	20
			Coffee/Staff Room	25
			Sanitation facilities	25
			Hot-desking/break-out space	50
			Lunch Room	30
	BACK-OF-HOUSE	1,230	Staff and service entrance	40
			Security	30
			Loading Bay	125
			Delivery, packing, crate storage	150
			Exhibition, preparation space and storage	350
			Workshops	250
			Workshop storage	50
			Workshop office	25
			Furniture storage	50
			Cleaner's room(s)	25
			Refuse room and recycling room	35
			IT Room	100
	PLANT SPACES	1,250	Plant rooms, ducts, etc.	1,250
TOTAL - MAIN BUILDING		**9,000**		**9,000**
OTHER		4,000	External exhibition and visitor amenity space	4,000
TOTAL - OVERALL (inc. landscape)		**13,000**		**13,000**

*PROVIDED FOR GUIDANCE ONLY. AN ALLOWANCE FOR CIRCULATION IS INCLUDED IN THE ABOVE SPACE TYPE AREAS.

SPATIAL REQUIREMENTS

FRONT OF HOUSE

The main entrance hall will be most visitors' first experience of, and engagement with, the Centre. It is the main entry, orientation and security point. However, it should also provide space to pause, reflect and relax within.

From the outside the entrance should announce itself through the clarity of its architecture, rather than relying on complex wayfinding. Once inside, the visitor should find the entrance hall bright, inviting and impactful, with a generosity of scale and space. Natural light, and visual connection to the outside, is essential. Again, there should be minimal reliance on wayfinding devices, with a clear and intuitive hierarchy of routes to adjoining spaces.

The main reception, ticketing and information point for the Science Centre should be located within the hall, with clear visual and physical connection between it, the entrance and other public functions and visitor amenities. This should accommodate three information staff, three ticketing staff and include a small resource room/space (for printers, scanners, storage, etc.).

Other front of house facilities, such as the cloakroom, sanitation and first aid facilities should be clearly demarcated and easily accessible from the entrance hall, but should not compete with the main reception, ticketing and information point. The cloakroom should have capacity for 300 items, as well as a locker room/space for 100. An additional group cloakroom, for 100 items, should also be provided to cater for school and other organised group visits. Sanitation facilities in the front-of-house area should cater for 15 users, including provision for disabled use and baby changing. A small, private breast feeding room/space should also be provided.

The location and extent of the security point for the building should be defined, but should not be overbearing or feel threatening within the space.

VISITOR AMENITIES

Retail space: A shop selling Science Centre merchandise and promotional materials, as well as books and other related publications, should be located within close proximity to the entrance hall, catching visitors as they either enter or leave the building. A small shop storage room and office should be co-located with the shop.

A separate entrance should be considered to the shop, without compromising the building's security, so that it can continue to operate outside the Science Centre's typical hours of business if required.

Food and Beverage: A cafeteria, serving up to 100 people, should be provided. This should present a highly social and relaxed atmosphere, and is envisaged as an important meeting place within the city of Kaunas. It should take advantage of important views, and natural daylight is essential. The kitchen should also act as a finishing kitchen for up to 600 guests to facilitate out-of-hours events in the Science Centre, such as exhibition openings.

The cafeteria should include a servery counter (which can transform into a bar in the evenings), a main kitchen and kitchen store. It should also include its own sanitation facilities for visitors and staff, as well as showering, changing and locker facilities for staff.

As with the shop, a separate entrance should be considered. The cafeteria should also have direct access to a dedicated external area, to serve up to 50 covers. Careful consideration of the siting of the cafeteria within the building should be made, to facilitate separate access, dedicated external space and direct and dedicated access for deliveries and waste disposal.

GALLERIES

Permanent: The Science and Innovation Centre will present the earth, its environment and eco-systems through the prism of the impact that humankind has had upon it, including through the development of technology.

It is anticipated that the permanent galleries will focus on three interconnecting themes: the *Human, the Machine* and *Nature/Ecology*. A fourth, introductory gallery should introduce the three themes and act as a lobby or atrium to the three main galleries. It should also include a small show space within it, to facilitate informal demonstrations or introductory films. This may require loose seating to be brought into the space for up to 150.

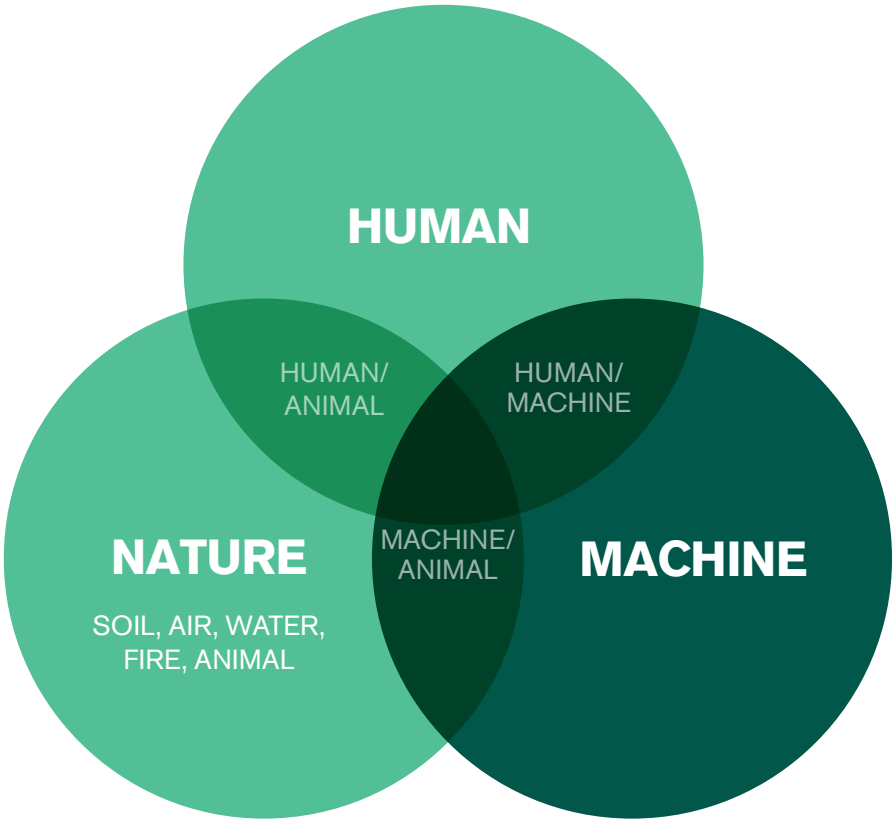
The Science and Innovation Centre does not have a permanent collection of objects. Instead it is anticipated that the galleries will present their themes largely through interactive exhibits, enabling visitors to engage and interact with the exhibits, supplemented, where required and possible, by other physical and/or audio-visual content.

The *Human* gallery will focus on societal achievements in health and life sciences. This may include, but is not limited to, a focus on the anatomy of the human body, the functioning of a range of complex organisms, human socio-psychological development, the promotion of health and the impact of treatment. The *Human* gallery will be largely experiential, with interactive displays that could relay information back to the visitor and audio-visual content. Some supplementary physical content, for example historical medical equipment, may be provided to enhance the narrative and display.

The *Machine* gallery will focus on components of, and developments in, mechanics and technology. Seen through the lenses of the public, corporate and domestic sectors, it will present smart developments (e.g. virtual reality) alongside technological objects (e.g. the development of personal telecommunications), as well as casting a critical eye to the future. Aligned to this, it will also present a more immersive experience, aligning mechanics and technology to the base laws and concepts of physics and mathematics through interactive displays and role play.

The *Nature/Ecology* gallery will focus on planetary issues affecting the past and present and how these may impact on our future. Sub-themes therefore include, but are not limited to: climate change, acid rain, melting of the polar ice caps, decay of wetlands, soil erosion, etc. The

GALLERIES



Nature/Ecology gallery will focus on human activity, and the consequences of our lifestyles on nature. It will do this through practical, informational and 'learning by doing' exhibits, using media such as simulations and real-time modelling to allow the visitor to redefine, or at least reconsider, their relationship with the natural world.

Modulated natural daylight within the gallery spaces is essential, whilst taking advantage of key views is desired. Although the permanent galleries have been described as four distinct spaces, they should be flexibly and fluidly arranged so that spaces can be combined if required. That said, there should also be the potential to close off areas within the individual galleries to create smaller, more intimate 'black box' spaces as and when required. It is anticipated that the permanent displays will be changed on a rotating basis once every four to five years.

Temporary: A highly flexible temporary gallery space should be provided to cater for the loan of significant international travelling exhibitions, related to the overall themes of the Science and Innovation Centre. This should be designed to international standards for climate control, lighting, security and fire control. It should be capable of multiple arrangements, either as one large volume or sub-divided as required. It should also be capable of closing off from natural daylight should the exhibition require it. As with the permanent galleries, an introductory space should be provided.

It is anticipated that these exhibitions will change, as a minimum annually (with the capacity to accommodate at least two a year).

EVENT SPACES

Flexible Event Space: A flexible multi-purpose event space should be provided for a range of activities, including projections, lectures, symposiums, etc. Not a formal auditorium, it should have a level floor but be capable of seating up to 200 visitors in a number of spatial arrangements, through the use of moveable seats (e.g. loose furniture on grade and/or terraces of moveable bleachers which could provide a sloped seating format). It should also be capable of being subdivided into two smaller spaces, with acoustic separation between.

It should be capable of providing a 'black box' environment, with high quality audio-visual equipment and requirements. A technical room and equipment storage room should also be provided as part of the flexible event space.

'Virtual' Planetarium: A 'virtual' planetarium should be provided. This is a multi-media room, for up to 100 visitors, providing a 3D/4D experience within the Science Centre. This could be a separately ticketed offer.

Research Laboratories: Two types of laboratories should be provided within the Science Centre. The first are research laboratories, covering biology, chemistry, physics and robotic engineering. These laboratories are accessed by invitation only and aimed at serious academic research, predominantly aligned with the national curriculum for STEM (Science, Technology, Engineering and Mathematics) for school aged visitors.

The laboratories should be fit-for-purpose, with appropriate ventilation provision and modern equipment and incoming service provision (e.g. gas, water, electricity, etc.). Each laboratory should be able to accommodate a single school class group (up to 30 per group), with both a 'wet' and a 'dry' preparation and storage room co-located with the laboratories. These two preparation and storage rooms are for staff access only, and should have a high level of security provision.

The *'Experimentorium'*: The second type of laboratory is the *'Experimentorium'*. This is a highly flexible laboratory space aimed at science demonstrations and experiments. It should have a workshop environment which is capable of flexible arrangements as required.

Visitors should be able to walk in and use the facilities without prior arrangement as part of their visit to the Science Centre, so a high level of security and staffing is anticipated for this space. As with the research laboratories, it should be highly serviced and conditioned, with its own 'wet' and a 'dry' preparation and storage rooms.

STAFF SPACES

An expert and administrative team will be assembled to curate, manage and operate the Science and Innovation Centre. The offices and supporting staff spaces should be carefully sited, located within relatively close proximity to the galleries as well as the front and back-of-house facilities.

Permanent workspaces should be provided for up to 60 staff, with a hot-desking/break-out space able to accommodate temporary workspace for up to a further 20 staff. The anticipated outline schedule of staff is as follows:

- Secretariat/Reception (1 workspace);
- Book-keeping office (2 workspaces in a separate office, in close proximity to secretariat);
- Director's office (1 workspace);
- Director's management team (4 workspaces);
- Administrative staff (10-15 workspaces) for PR, marketing, events and exhibition management;
- Administrative staff (up to 10 workspaces) for HR and facilities management; and
- Curatorial and education team (20-25 workspaces).

Short-term storage should be dispersed amongst the above workspaces, with long-term archive storage provided in a dedicated room. Other supporting staff facilities should also be provided, including changing and locker facilities for up to 50 gallery floor staff, appropriately co-located sanitary facilities (including showers), meeting facilities (including a meeting room for up to 20), copy/ resource rooms, a coffee/staff room (with kitchenette) and a lunch room.

The design and environment of the staff accommodation should be contemporary and comfortable. Natural daylight is required, and views desired, from every workspace. Appropriate environmental conditions should be provided for staff comfort, employing passive design techniques where possible. A high degree of flexibility and efficiency in the layout and design of the staff spaces is desired.

A separate staff entrance should be provided, close to one of the Centre's security points.

BACK-OF-HOUSE

The arrangement of back-of-house facilities, to service and support building operations, is as important as the more high-profile front-of-house spaces. A loading bay should be provided for both exhibition and day-to-day deliveries providing the service entrance to the Science Centre. This should be covered, with adequate swing space and behind the Science Centre's security line. Equipment, workshop, furniture, refuse, recycling and general stores should be located in close proximity to the loading bay, as should the delivery, main packing and unpacking space for exhibitions.

Adequate space should be provided for exhibition preparation and storage, as well as workshops for the repair and fabrication of exhibits. The exhibition preparation space and associated stores should be located close to the permanent and temporary galleries as well as the loading bay and delivery, packing and unpacking rooms. This should be a high security environment, with appropriate levels of fire suppression and climate control, and should be designed to mitigate potential problems from natural forces, such as flooding.

Separate workshops should be provided for woodwork, metalwork and finishing (e.g. painting). These workshops should be appropriately designed with adequate servicing and task and general ventilation. Co-located store rooms, and a small workshop office to accommodate up to six staff, should also be provided.

Well-designed and adequate storage provision should also be provided for the following:

- Technical equipment and accessories (e.g. audio-visual and IT equipment);
- Non-fixed items of furniture (up to 10 trellis tables and 100 stackable chairs);
- Crate storage (related to exhibits);
- Day-to-day deliveries, such as cleaning equipment and toilet rolls; and
- Refuse and recyclable waste.

Adequate service space for plant rooms and equipment, and vertical risers and ducts should be provided, and sited in efficient locations to service the building.

Note: Area associated with horizontal and vertical circulation (e.g. corridors, lifts, escalators and staircases) is included in the overall area requirements for each space type.

OTHER

Outdoor space: An area of outdoor space, in the region of 4,000 square metres, should be designed to provide both an appropriate threshold and access route to the main entrances of the Science Centre and to accommodate external exhibition content.

The main entrance to the Science Centre building should be highly visible within Nemunas Island, and the city beyond, and should announce itself through the clarity of its architecture rather than rely on the addition of complex orientation and wayfinding devices.

For the external exhibition space, competitors should carefully consider the siting of the Science Centre's security and pay-line. The *Nature/ Ecology* gallery, due to its theme, would appear to be the most obvious of the permanent galleries to have outdoor exhibits and therefore a connection to the landscape surrounding the Centre. The temporary galleries should also be well connected to this external space.

Further requirements within the designed outdoor space include a catering terrace (associated with the cafeteria) and an outdoor play area.

NEMUNAS ISLAND, VIEW NORTH WEST

PLANNING AND TECHNICAL CONSIDERATIONS

Planning: Nemunas Island (address Karaliaus Mindaugo Av. 50) is included within the Kaunas City Municipality General Territory Plan (approved by decision number T-209 of the Kaunas City Municipality Council 10th April 2014) as an area of outdoor leisure and recreation space (with associated recreation infrastructure such as pedestrian and cycle routes, playgrounds, etc.). In addition, since 2011 it has been the site of the Kaunas Entertainment and Sports Arena (Žalgiris Arena) and associated infrastructure at its eastern end (see Annex x7).

The Science Island concept, developed in 2015, looks to set aside a small area within the island for the new National Science and Innovation Centre of Lithuania. This is in keeping with the General Plan, which establishes the Island's functional zoning as 'territory for public purposes, designated for construction of buildings for public purposes (for example buildings for exhibitions, congresses, sports, tourism, entertainment, recreation, etc.)'.

Nemunas Island is located within Naujamiestis District, the protected heritage area of Kaunas which includes the Old City (of medieval origins). As a result, stringent heritage protection requirements exist.

According to mandatory Cultural Heritage Protection Law Article 11, paragraph 6, point 2, 'actions that could interfere with an overview of the cultural heritage (in this case – Naujamiestis district) are prohibited in this visual protection sub-zone'. These include protected view corridors within Naujamiestis District and a maximum allowable building height on the Island of 25 metres (above typical island surface level).

Designs brought forward for the Science and Innovation Centre and Nemunas Island will be subject to the planning regulations of Kaunas City Municipality and the State of Lithuania.

Please note that this is a concept design contest and technical detail will be solved in the technical planning stage.

Please see below link for access to the General Territory Plan:

http://www.kaunas.lt/wp-content/uploads/sites/13/2015/06/02pagrindinisvienaslapas10000-1.jpg

Please see below link for access to further information on the General Territory Plan:

http://www.kaunas.lt/urbanistika/bendrasis-planavimas/kauno-miesto-savivaldybes-teritorijos-bendrasis-planas-2013-2023-m/

AKROPOLIS SHOPPING CENTRE

Access: Vehicular access is provided by two road bridges to the Island. The first is located at the eastern end of the Island, to the south-eastern end of the Akropolis Shopping Centre on the mainland and the Žalgiris Arena on the Island. The second road bridge is aligned with A. Mickeviciaus g. – accessing the Island adjacent to the parking area to the north-west of the Arena.

Two pedestrian footbridges provide access to the Island, and are located to the west of the road bridges. The first lines up with S. Daukanto g. and the second is further west providing a route between the promenade along the Karalius Mindaugas riverbank and the Island.

The General Territory Plan (2014) also includes a further pedestrian footbridge planned between the Island and the south bank of the

Nemunas River in Aleksotas. This is to connect the Island (and city beyond) to the proposed new concert and convention centre planned for this location. The Plan also anticipates a new passenger dock for tourist vessels on Nemunas Island.

Parking: Parking is currently provided underneath and to the north-west of the Žalgiris Arena on the Island. On the mainland parking is provided along the Karalius Mindaugas riverbank (north bank of the Nemunas River) and in the multi-storey parking associated with the Akropolis Shopping Centre.

As such, no parking is to be provided as part of the Science and Innovation Centre development, but competitors should consider the parking needs of disabled visitors, those arriving by coach (for example school visits) and taxi and VIP drop-off within their designs. Appropriate levels of bicycle parking should be provided as part of your design.

AKROPOLIS SHOPPING CENTRE (LEFT) AND ŽALGIRIS ARENA (RIGHT) FROM PĖSČIŲJŲ TILTAS Į NEMUNO SALĄ

Should your design proposal affect the current parking capacity on Nemunas Island, then these spaces should be re-provided elsewhere on the Island. To clarify, there should be no net loss or gain of parking spaces as a result of your design.

Space planning, functional adjacencies and operational logistics: The diagram opposite illustrates the high level functional adjacencies for the Science and Innovation Centre. Competitors should note that this is provided for guidance only, and we look to your creativity in determining an appropriate space planning rationale for the building and associated landscape spaces.

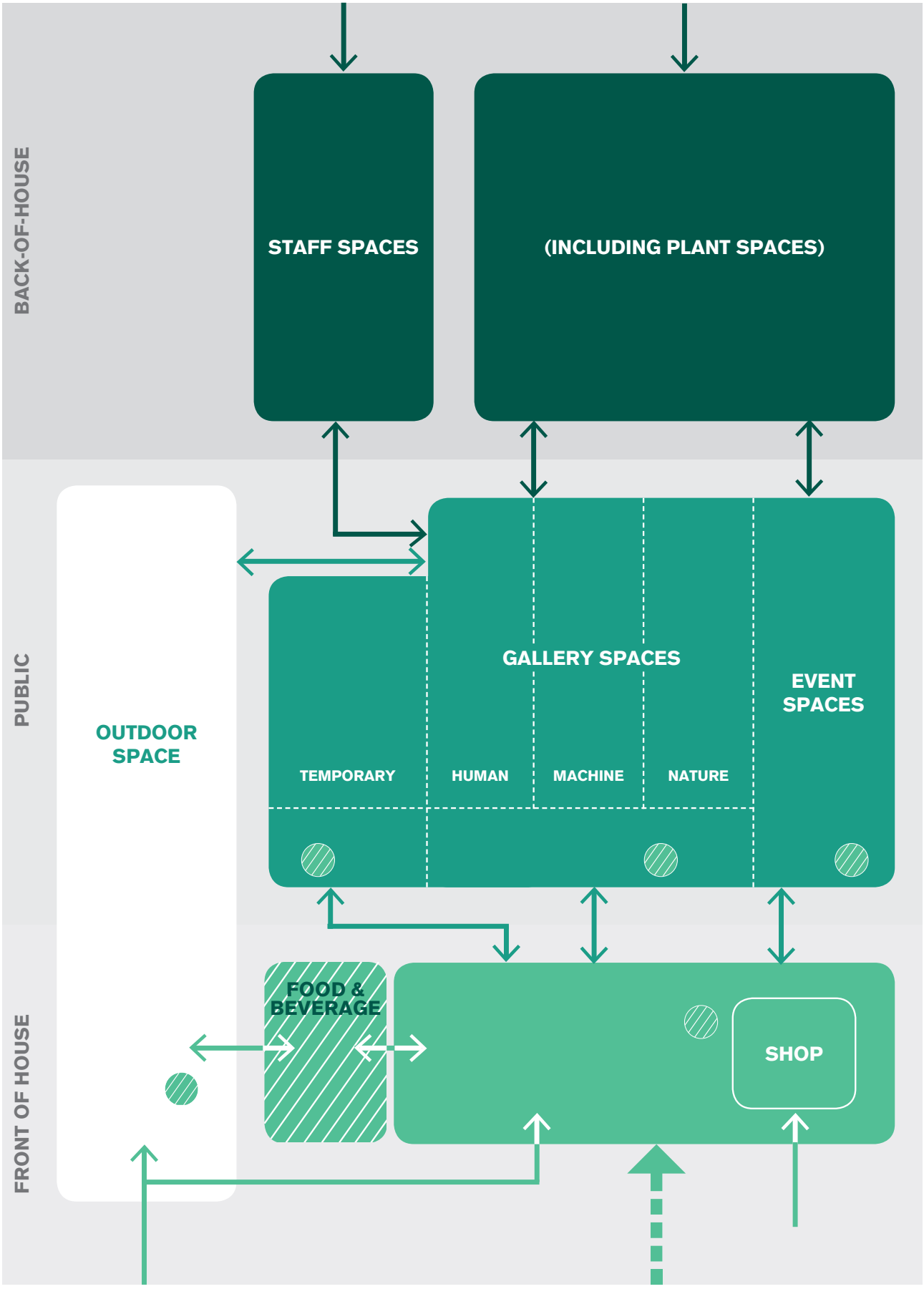
Movement through and orientation within the Science and Innovation Centre should be natural and intuitive, without the need to rely on excessive signage and wayfinding devices. The building should enable ease of use, access, movement and orientation, with minimal cross-overs, obstacles, impediments to visual and physical connections throughout.

In organising the building and associated landscape, three separate movement paths (and associated entrances) are critical in the smooth operation of the building:

- **Visitor paths:** The layout of the front-of-house and public spaces should be logically arranged to facilitate visitor orientation and movement, and should be designed to avoid potential conflicts or specific areas on the public routes where visitors may congregate and thereby create congestion. A separate public entrance for group visits (e.g. schools) should be considered within the design. The back-of-house and staff areas are off limits to the public.
- **Employee paths:** Separate paths should be provided for staff, and these paths should not conflict with or cross-over visitor routes.
- **Exhibit paths:** Secure, dedicated, uninterrupted, covered and appropriately conditioned routes for exhibits should be provided so these exhibits can be delivered, stored and shown at the Science Centre as required. These are staff only spaces, where deliveries will be supervised and should be adequately designed to accommodate objects of 4 metres x 5 metres x 4 metres in size.

Servicing, and in particular the ability to easily bring large objects, with minimal disruption, into the public spaces and galleries and to refresh the Centre's interactive displays and

ADJACENCIES DIAGRAM



content as required is important to maintaining the Centre's relevance in a rapidly changing world. Servicing, including day-to-day deliveries, should be considered both vertically and horizontally within the building. External marshalling areas, to provide space for delivery vehicles and their associated swing spaces, should also be carefully considered.

Flexibility and Efficiency: Flexibility (the ability for spaces to adapt their use over time) and efficiency (the ability of a single space to perform multiple functions) should be built into the design.

A flexible approach should be taken to the whole Centre site, and in particular the front of house and visitor amenity spaces to cater for potential future changes in cultural habits or visitor demographics.

Efficiency will help to reduce the capital burden of providing facilities within the Science Centre. Competitors should consider how some spaces could provide two separate yet compatible uses.

Accessibility: The design of the Science and Innovation Centre building and associated landscape should adhere to the Government of the Republic of Lithuania's Law on Accessibility, which promotes universal design principles.

The experience of visiting the Science and Innovation Centre should be equal for all, regardless of age or level of ability. Full accessibility should be provide to all floor levels across the building, and within associated landscape spaces.

Maintenance: The Science and Innovation Centre should be designed with ease of use, cleaning and maintenance in mind. It should be designed to minimise whole life costs, thereby providing lifetime value. The design should take into account, even at this conceptual stage, issues relating to maintenance and cleaning, including:

- Finishes that are robust and easily cleaned;
- Fittings that have a long life expectancy, but are easily replaceable and with minimum variations across the building and landscape; and
- Adequate space to facilitate service equipment maintenance and future replacement.

Services Infrastructure: No services infrastructure was provided within Nemunas Island before the construction of the Žalgiris Arena in 2008. Currently, all of the infrastructure on Nemunas Island is located at its eastern end, related to servicing the Arena itself.

A description of the existing services infrastructure on the Island is as follows:

- Water supply, as well as domestic sewage routes, is connected from the eastern end of the Island to Karalius Mindaugas Avenue;
- Rainwater drainage is again provided to the Arena only, with the rest of the Island either absorbing rainwater or self-draining as run-off directly into the Nemunas River;
- As with the water supply and domestic sewage, heating pipes supply the arena and are connected to the wider city along Karalius Mindaugas Avenue;
- Electric power is provided by two electricity sub-stations of 10kV capacity each, both located at the eastern end of the Island. A 0.4kV external lighting network is also established on the Island, supplying the existing external lighting; and
- There is no gas supply to the Island.

Because limited services infrastructure exists over most of the Island, competitors should take this into consideration when siting their design, but it will not be a primary reason for selecting the location.

New services infrastructure required for the proposed Science and Innovation Centre will be provided through funding from the European Union, State of Lithuania and Kaunas City Municipality, and therefore the type and requirements of these services is dependent on the results of this competition.

Sustainability: As well as promoting sustainability through its contents, the building, in harmony with its landscape, should be an innovative exemplar of sustainable design, construction and practices. In this way, the building itself becomes the ultimate exhibit of the Centre.

The client has a commitment to low energy and alternative energy strategies. Kaunas City Municipality has four key sustainability goals:

- To be environmentally responsible, through siting, spatial organisation, use of technology and choice of materials the building, and its construction, should have minimal negative impact on the environment;
- The Science and Innovation Centre should be an energy efficient and effective building, with a maximum foreseeable energy use of 100-150 kWh/m2 annually;

- Future flexibility and adaptability, ensuring longevity of life and usability for the building in the future; and
- A safe and healthy building, for employees and users alike.

Therefore your design should aim to reduce the environmental and health impact of the building by:

- Minimising waste in both construction and building use and maximising recycling;
- Maximising energy efficiency and minimising running costs;
- Minimising the energy demand for cooling, heating and lighting;
- Maximising use of renewables and alternative forms of energy;
- Saving water for indoor use and irrigation;
- Careful sourcing and use of materials;
- Preventing light and noise pollution; and
- Employing passive solutions where possible.

NEMUNAS ISLAND PARK

As well as being asked to prepare concept designs for the Science and Innovation Centre, and associated facilities and external landscape, competitors are also required to present an urban integration plan for the whole of 33 hectare Nemunas Island.

The aim of the Island urban integration plan is for competitors to present an appropriate setting for their Science and Innovation Centre building, with due consideration made of existing buildings and structures, including the Žalgiris Arena, and the current use of the Island. Competitors should also consider a route through the Island from the city and over to the south bank of the Nemunas River in Aleksotas, where a new bankside concert and conference centre is planned.

It is anticipated by Kaunas Municipal Authority that Nemunas Island will remain a much loved green space within the City. These improvements should be made so that it can function more as a traditional city park, albeit one that is characterised by wild heathland located within an expressive natural setting, rather than a more formal urban park.

The urban integration plan design does not form part of the works that constitute the project budget, as described on page 52 of this document. Competitors should also be aware that there is no guarantee that the full extent, or any of the proposed urban integration plan would be implemented and this would need to be subject to separate fundraising initiatives and project development. This said, it remains an important part of the competition submission and is being evaluated accordingly (see page 66 for the submission requirements and pages 70-72 for the evaluation criteria of the competition).

A flood probability study on the site and surrounding areas can be found at:

http://mapslt.maps.arcgis.com/apps/SocialMedia/index.html?appid=4da009f97bec4571bc6f3eac277c7841

The study indicates that there is 10 percent probability that flood levels will reach the blue area, a 1 percent probability that water might reach the level marked in orange, and a 0.1 percent probability that it will reach the level marked in pink.

PROJECT DETAILS

AWARD PROCEDURE AND RECOMMENDATION

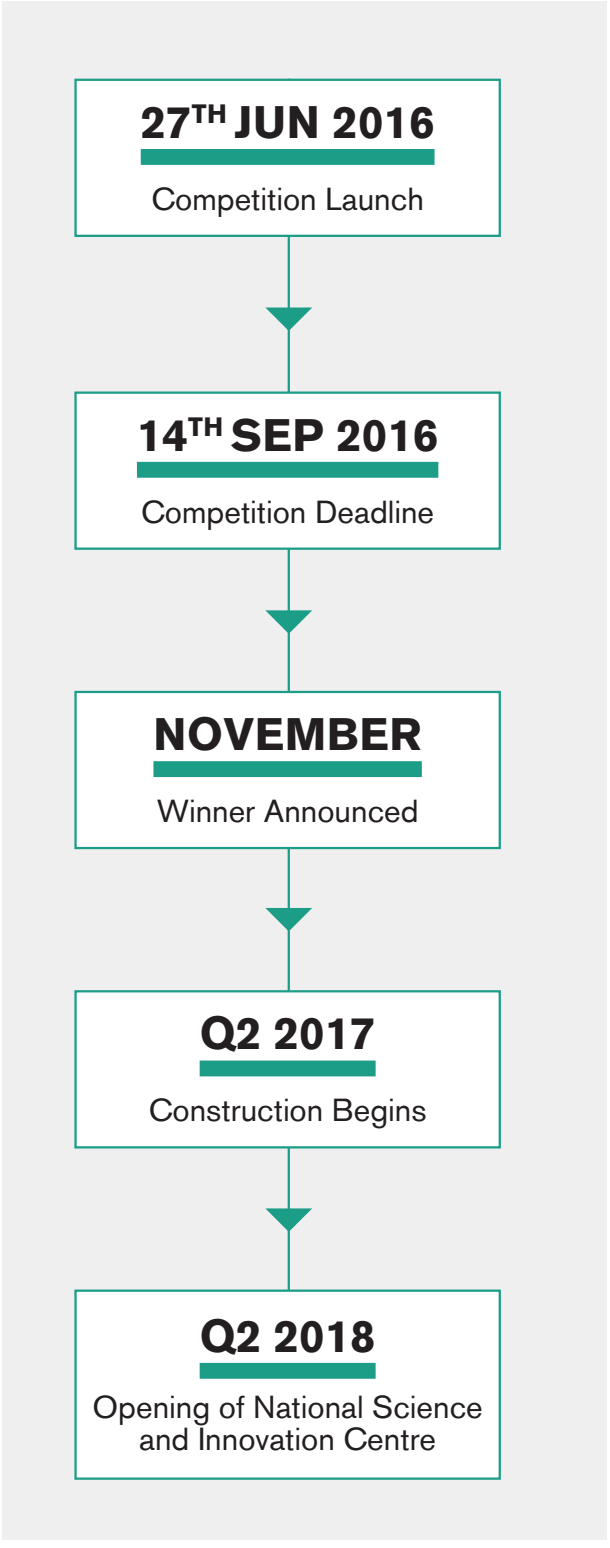
The competition is being run to the Design Contest Procedure. It is expected that three winners will be selected through the competition. After the competition has ended, these three teams will be invited to participated in a Negotiated Procedure without Publication of a Contract Notice with Kaunas City Municipality with the aim of taking the concept through to completion on site.

BUDGET

The expected budget for the National Science and Innovation Centre is €25M, inclusive of taxes.

This budget is not yet finalised, but this sum should be used as a working budget for the purposes of the competition.

ANTICIPATED PROJECT TIMELINE



PLEASE NOTE THAT THIS IS A PROVISIONAL TIMELINE WHICH IS SUBJECT TO CHANGE.

PART TWO

COMPETITION PROCEDURE, GUIDANCE & REQUIREMENTS

COMPETITION DETAILS

The Contracting Authority is Public Institution Kaunas Architecture and Urban Experts Council (hereinafter – the KAUEC), which was authorized by Order No. A760 of the Director of Kaunas City Municipal Administration of 17 March 2016, along with an independent expert-organiser of international design competitions Malcolm Reading Consultants (MRC), which has nearly twenty years' experience in this area, to lead the competition, administer it and subsequently implement public procurement procedures on behalf of the client. The competition is being run to the Design Contest Procedure.

The competition will result in the selection of the three best projects. These competitors will be invited to participate in a Negotiated Procedure without Publication of a Contract Notice. It is anticipated that this subsequent procedure will result in the final selection of one winning project, and the team will be appointed to develop the project.

ABOUT THE COMPETITION CONDITIONS

All relevant competition materials are provided within this document and its annexes. Teams are encouraged to consider this material and submit their suggestions related to the material of the chapters 'Construction programme' and 'Space planning', where they consider this necessary.

All the information about the competition (the competition conditions, as well as explanations and clarifications) are announced on the website of the competition:

http://competitions.malcolmreading.co.uk/scienceisland/

and Central Public Procurement Information System (CPP IS) at the following address:

https://pirkimai.eviesiejipirkimai.lt/

These websites contain constantly updated information related to the competition – clarifications, replies to the queries (Q&A), the time of opening of the registration details envelopes and other relevant information.

REGISTRATION

Suppliers should register at:

http://competitions.malcolmreading.co.uk/scienceisland/

or accept the call to the competition via CPP IS

https://pirkimai.eviesiejipirkimai.lt/

Registration is free of charge.

Registration on the competition website is completed by entering all the indicated data and pressing the 'Register' button.

If you chose to register via CPP IS, registration is completed in the following way: visit the list of the latest notifications, select the name of the procurement,, select the button 'Prisijungti' (Sign up), enter the requested data for signing up on CPP IS, and press 'Priimti kvietim ' (Accept the call).

The suppliers registered on the competition website or CPP IS shall receive notifications related to the competition (clarifications, replies to the queries, the time of opening of the envelopes and other relevant information).

Non-registered suppliers will not receive notifications and will have to follow the information by their own initiative, which will be published on the competition website (http://competitions.malcolmreading.co.uk/scienceisland/) and CPP IS at the address (https://pirkimai.eviesiejipirkimai.lt/).

Each competitor may submit only one project for this competition.

The competitors registered on the website of the competition at (http://competitions.malcolmreading.co.uk/scienceisland/) shall receive a unique registration number, which shall be used for identifying their project during the competition. The competitors may register any time before submitting the final project.

Note: Taking into consideration the fact that a large number of projects are expected, competitors are requested to register on the competition website

http://competitions.malcolmreading.co.uk/scienceisland/

to receive a registration number, which will help to ensure a smooth administration process of the competition.

CONTACT AND ENQUIRY PROCEDURE

All the queries arising during the competition should be made by email to:

scienceisland@malcolmreading.co.uk

or by using the means of CPP IS.

Competitors are encouraged to be proactive and submit queries and requests to clarify the competition documentation where there are uncertainties as early as possible so that there is enough time to take into consideration the replies received. The organisers of the competition shall reply to all the queries received not later than 8 days before the end of the competition, i.e. no later than on **6 September 2016.**

All the clarifications and updates shall be made publicly available on the competition website at

http://competitions.malcolmreading.co.uk/scienceisland/

and CPP IS system. Those competitors who have registered on either the CPP IS system or the competition website will receive email notifications when new information is added to these websites.

The organisers of the competition shall reply to the queries received in time not later than 6 days before the end of the competition, i.e. no later than on **8 September 2016**. Should the project submission deadline be extended due to unforeseen circumstances, the deadlines for submission of queries or replies would change accordingly. The replies to the queries shall be submitted to all the competitors registered and shall be made public without indicating who the query was received from.

Before the expiration of the deadline for submitting competition projects, the organisers of the competition may at their own discretion supplement or clarify the competition documentation. In such a case, the information about the amendments shall be sent to all the competitors registered and shall be made publicly available and, if necessary, the deadline for submitting the projects for the competition shall be extended for a reasonable time.

SITE VISIT

Competitors are free to visit the site during the competition period; however, no formal site visit is planned.

HOW TO SUBMIT

The projects shall be submitted **both digitally and physically**. The project shall be considered to be received when its physical form reaches the addressee indicated in these documents.

Detailed information on the physical and digital requirements for the projects may be found on page 66.

PHYSICAL PROJECTS

The deadline for submitting physical projects is **14.00 GMT +3 Wednesday 14 September 2016**.

Physical projects shall be sent to Kaunas Architecture and Urban Experts Council. The organisers of the competition shall not be responsible for the delays of the postal services or other unforeseen cases, as a result of which the projects were not received or received too late. The Contracting Authority shall register the projects received too late and return the unopened envelopes to the suppliers who submitted them (where they request to receive them and where the address has been indicated). The competitors shall be responsible for ensuring that the projects are delivered in time, including ensuring the necessary measures for customs clearance procedures. Neither the client, nor Malcolm Reading Consultants shall pay or arrange for the packages to be released from customs.

The project consists of the documents as indicated in the chapter 'Submission Requirements' of these competition conditions. The competitor shall submit the project in two different envelopes, which shall be put into a single package. Only the following information shall be written on the package:

Science Island Competition
Registration Number
VšĮ Kauno architektūros ir urbanistikos ekspertų taryba,
Vilniaus g. 22, LT-44280 Kaunas

Two envelopes shall be put into the single package:

1) The first envelope, entitled **The Project**, with the registration number
2) The second envelope, entitled **The Registration Details** with the registration number

The projects shall be prepared and submitted by ensuring their anonymity, i.e. there shall be no information (the suppliers' addresses, phone numbers, emails, logos, etc.) which would allow identification of the supplier. Where the single envelope is sent by post, the name and address of the Contracting Authority (KAUEC) may be indicated instead of the name and address of the competitor. Where required by the post company, the competitors may indicate the addresser on the exterior of the package, however, the entire project within the package shall be anonymous.

If the competitor requires, the person in charge of the registration of received projects can provide a certificate that indicated the date, hour and minute of when the project was received.

SUBMISSION OF DIGITAL PROJECTS

Competitors who have registered on the competition website

http://competitions.malcolmreading.co.uk/scienceisland/

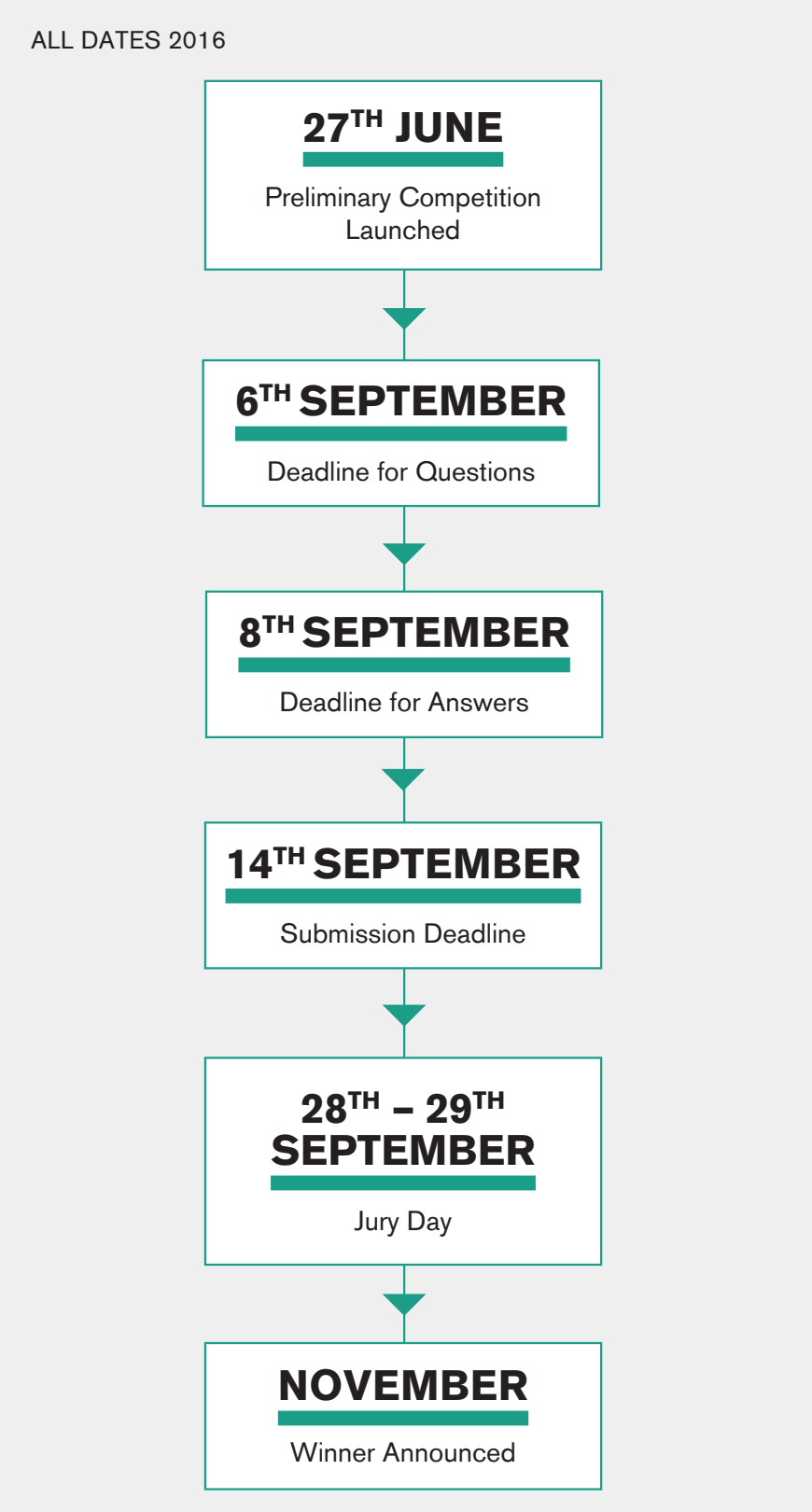
shall receive a unique registration number, which shall be used for identifying their project during the competition. The competitors may register any time before submitting the final project.

Digital copies of project documents must be recorded in a USB flash drive and delivered together with physical project elements in the first envelope titled 'Project'. Digital data must meet requirements listed in the section 'Submission requirements'.

The competitors shall be responsible for ensuring that the projects submitted digitally are identical to the ones submitted physically.

ANTICIPATED COMPETITION TIMELINE

All dates provided are provisional, and may be subject to minor alterations where unforeseen circumstances arise.



TERMS & CONDITIONS

RETURN OF THE PROJECTS

The projects shall be returned to competitors within 14 days where they request this and indicate the address to which the projects have to be returned.

LANGUAGE

In order to ensure anonymity all projects shall be submitted in English. Lithuanian versions of the annexes have been provided for information only – the completed annexes should be English versions.

INSURANCE

The Contracting Authority and Malcolm Reading Consultants (MRC) will take reasonable steps to protect the projects and take care of them, but neither organisation shall insure them.

Competitors are urged to keep a full record of all their projects submitted and to be able to make this available at any time should adverse circumstances require this.

FINANCIAL DATA

The anticipated budget of the National Science and Innovation Centre is €25 million, including taxes. The budget is not final, however, this amount should be used in the competition as a working budget allocated to define the financial opportunities and expectations of the Contracting Authority.

PRIZES

A prize of €15,000 shall be awarded to each of three finalist practices on conclusion of the competition.

No other payment of any kind shall be made in respect of any costs associated with, or incurred in, the preparation and submission of the projects or as part of the tendering process, irrespective of the end of the competition.

PERMISSIONS, COPYRIGHT OF ENTRIES AND INTELLECTUAL PROPERTY RIGHTS

The Contracting Authority and Malcolm Reading Consultants shall reserve the right to use the material submitted in the projects during the competition or its separate parts for making this competition and its results public, in organising exhibitions, publishing the information on the websites of the organisers and this competition or in the printed press. By making this material public, the authors of the projects shall be mentioned respectively. The right to use the submitted material shall remain even where the competitor decides to withdraw from the competition.

COMPETITION PUBLICITY

The competitors should note that all the project material or its part may be used for publicity purposes. This may include a public project concept exhibition, internet project gallery, media releases or other information related the projects or the competition in the broader sense.

THE QUALIFICATION REQUIREMENTS FOR COMPETITORS

The competitors shall meet the minimum qualification requirements enlisted in Annex X1. Annex X1 is provided for information only at this stage. The documents certifying meeting the minimum qualification requirements shall be requested **only from the competitors that have won the first three places (I-III).**

All the competitors shall submit a declaration for meeting the minimum qualification requirements (Annex X2).

The competitors that do not meet the minimum qualification requirements and the competitors that fail to submit the clarification of the inaccurate or incomplete data about their qualification at the request of the Contracting Authority shall be removed from the competition, and their place shall be taken by the competitor that is next after them on the list. Only the competitors that meet the minimum qualification requirements shall have a right to participate in further procurement procedures.

SUBMISSION REQUIREMENTS

The aim of this design contest is to encourage the competitors to seek creative and interesting solutions that would help to create the most suitable spaces for science promotion in Lithuania. Please submit your proposals in the form as detailed in this section.

The boards should 'tell a story' and present the key ideas behind the project. The concept description is intended to supplement the boards.

All the parts of the project may be used for publicity purposes, including, but not limited to, the public exhibition and online gallery.

Only the projects that are eligible according to the requirements stipulated in the section 'Submission Requirements' shall be considered. The jury shall not consider the information or additional material, except for the cases where this is requested during further collaboration.

The projects shall be submitted both in hard and digital form and the two forms shall be identical. More detailed information is indicated below.

The elements indicated in this table shall be submitted in the first envelope marked as **'The Project'**. All the documents submitted in this envelope shall be marked by the same registration number. The information requested in sections A-C shall be presented in six A1 boards, the information requested in sections D-E shall be presented in two separate A4 sheets.

PROJECT ELEMENTS

A) A1 BOARDS

PHYSICAL REQUIREMENTS	DIGITAL REQUIREMENTS
6 x A1 (594 X 841 mm) size boards presented in landscape format (long dimension on the X-axis) mounted on stiff card. Any printed medium, including but not limited to collage, pencil, crayon, paint, photo or pen and ink is acceptable (up to 5 mm total projection from surface of board).	6 x A1 boards printing quality (300 dpi). The file should not exceed 10 MB in size.
BOARD 1: CITYSCAPE Demonstrate how the design connects into the wider urban grain and context of Kaunas, linking the site on Nemunas Island to Naujamiestis district of Kaunas, the Žalgiris Arena and the proposed conference centre on the left bank of the Nemunas River. Combine the city's identity and the genius loci of the site. Please also include a 150-word summary concept description on the board.	
BOARD 2: ARCHITECTURAL QUALITY (EXTERNAL) Present and describe the siting, massing and materiality of the building within its context and landscape. Explain why your project would be of high quality, attractive and welcome by the society.	
BOARD 3: ARCHITECTURAL QUALITY OF PUBLIC SPACES (INTERNAL) Your design concept for the main public spaces of the building (for halls, lobbies). This should include the quality and sequence of arrival and orientation in the building and an illustration of the main public amenities of the building in use (for example, the café, restaurant and shop).	
BOARD 4: ARCHITECTURAL QUALITY OF THE GALLERIES (INTERNAL) Your design concept for the galleries and their associated spaces, covering the 'Human', 'Machine' and 'Nature/Ecology' permanent galleries and the temporary exhibition gallery.	
BOARD 5: USABILITY – SPACE PLANNING AND LOGISTICS Demonstrate the building in operation and how it works, why this kind of building would suitable for a science and innovation centre. Include both the front-of-house and back-of-house operations. This board should expand on the operational needs, accessibility approach and spatial requirements of the project.	
BOARD 6: SUSTAINABILITY AND FEASIBILITY Demonstrate a response to the environmental priorities of the project's requirements, including the whole lifecycle of design, construction and in use, and the responsible use of construction methodology and material choice. Further demonstrate that the design concept is suited to the site's specific geographical and climatic conditions and is practical and feasible within the time and budget constraints provided.	

B) PLANS, SECTIONS AND ELEVATIONS

PHYSICAL REQUIREMENTS	DIGITAL REQUIREMENTS
Please submit plans, sections and elevations of your design at the following scales: (i) Masterplan at 1:2000, (ii) Main floor plans at 1:200, (iii) Two key elevations at 1:200 (annotated with proposed façade materials), (iv) Two key sections at 1:200.	Please submit plans, sections and elevations of your design at the following scales: (i) Masterplan at 1:2000, (ii) Main floor plans at 1:200, (iii) Two key elevations at 1:200 (annotated with proposed façade materials), (iv) Two key sections at 1:200. This should be submitted as one single PDF file that does not exceed 10 MB in size.

C) IMAGES

PHYSICAL REQUIREMENTS	DIGITAL REQUIREMENTS
Two landscape images that best exemplify your design proposal.	Two landscape .jpeg images at 300dpi, 1600px wide by 1200px high that best exemplify your design proposal

D) AREA SCHEDULE

PHYSICAL REQUIREMENTS	DIGITAL REQUIREMENTS
A printed A4 form, filled in in English, provided in Annex X3	A completed digital form submitted in Annex X3. It should be submitted in PDF format, the file should not exceed 2 MB.

E) CONCEPT DESCRIPTION

PHYSICAL REQUIREMENTS	DIGITAL REQUIREMENTS
On a double-sided A4 sheet please provide, in English, a maximum 500-word description of your design concept with a single image that best exemplifies the quality of your design.	A maximum 500-word description of your design concept with a single image that best exemplifies the quality of your design. This should be submitted in a PDF format, the file should not exceed 2 MB.

The second envelope marked as **'The Registration Details'** must include the following elements:

- **The Supplier Registration Form** – a completed form (Annex X5);
- Where the project is submitted by a group of suppliers – **a joint venture agreement, with the name and surname of the authorized representative and the phone number indicated. Legal persons shall indicate the author or the authors** of the project and their phone numbers. The joint venture agreement shall indicate the liabilities of each of the parties of the agreement and shall foresee which person shall represent the group of economic entities (whom the Contracting Authority shall communicate with regarding the issues arising during the project evaluation stage and provide the information related to project evaluation).
- **A completed declaration on meeting the minimum qualification requirements** according to the form of these conditions provided in **Annex X2**.
- **Authorisation** or other document (for example, a job description) granting a right to sign the competitor's project (tender) (shall be applied where the registration details of the project is approved by an authorised person rather than the head of the company).

All the documentation in the second envelope, including their annexes, shall be stapled and numbered.

Failure to implement the provisions of the requirements of the section 'Submission Requirements' or improper implementation thereof shall be considered to be the basis for rejecting the project submitted by the competitor.

EVALUATION PROCEDURE

JURY

The Jury shall assess all the projects submitted and select three winners.

Composition of the Jury:

- **Malcolm Reading**
  Chairperson
  Malcolm Reading Consultants
- Audrius Ambrasas, Director, Audrius Ambrasas Architects
- Jonas Audėjaitis, Kaunas Faculty Deans, Vilnius Academy of Arts, and Member of Kaunas City Council
- Jim Eyre, Founding Director, WilkinsonEyre Architects
- Robin Hoyle, Director of Science, Glasgow Science Centre
- Svetlana Kauzonien, Vice Minister, Lithuanian Ministry of Science and Education
- Rainer Makhlamäki, Professor and Founder, Lahdelma & Mahlamäki Architects
- Rolandas Maskoliūnas, Chief Press Officer, Lithuanian Academy of Sciences
- Christos Passas, Associate Director, Zaha Hadid Architects

The jury will be assisted by a non-voting secretary – Snieguolė Surblienė, who will protocol the jury meetings.

Should a member of the Jury be unable to participate in the work of the Jury, the client shall preserve a right to replace him with a suitable person at any moment.

Further details on the jury procedure can be found in Annex X4.

ASSESSMENT CRITERIA

NO.	ASSESSMENT CRITERION K (Each project shall be considered separately)	COMPARATIVE WEIGHT OF THE CRITERION (%)	DESCRIPTION, EXPLANATION OF THE CRITERION
K^1	Cityscape	20	The proposal is compatible with the urban fabric of the city, as well as complying with and adhering to the urban planning and cityscape design principles: for example, it respects the visual zone of the river, the island's green framework and the stylistic peculiarities of the architectural environment.
K^2	Architecture	30	The body of the design of the exterior form and the arrangement of the interior spaces are of a high quality and shall express the contemporary trends of modern architecture, express the functional concept of the Science Centre in an innovative way.
K^3	Usability	20	The suitability of the project for the implementation of the activities of science promotion.
K^4	Sustainability	15	The proposal and the construction proposed has considered sustainability in its design, including the full lifecycle costs of the building from a social, environmental and financial perspective.
K^5	Feasibility	15	The proposal is assessed as being suited to the Kaunas climatic conditions and is compatible with the specific conditions of the site and is implementable within the set costs framework, including size, outline specification of proposed materials and structural solution).
		100	

The **criteria K^1 – K^5** of each project are scored from 1 to 10; these scores are given taking into consideration the evaluation recommendations provided below. The members of the Jury will provide an expert evaluation of each project by providing an average project evaluation score, which is then recalculated according to the comparative weight of the criterion. Where two projects receive the same number of scores, the decision is determined by the evaluation of the Jury Chairperson.

RECOMMENDATIONS FOR EVALUATION:

SCORES	VALUE OF SCORES	SUBSTANTIATION OF THE ASSESSMENT
1	Unacceptable in whole or part	No design has been provided or the response fails to present and describe the criteria; all elements of the response are not justified or are unsupported by evidence where required; fails to demonstrate any understanding of the design challenge or context.
2	Poor and significantly below requirements	Very significant gaps or lack of justification/evidence in the response where required; responses given are very generic and not relevant in whole or part; fails to demonstrate considerable understanding of the design challenge or context.
3	Poor and below requirements	A lack of content or explanation in one or more aspects of the design response; significant gaps or lack of justification/ evidence in response where required; responses given are generic and not relevant in whole or part; a degree of a failure to demonstrate understanding of the design challenge or context.
4	Satisfactory response but does not meet all requirements	The design is presented and described satisfactorily overall but some key aspects lack sufficient detail or explanation.
5	Satisfactory response that meets most requirements	The design is presented and described satisfactorily for the most part but some aspects lack sufficient detail.
6	Satisfactory response that meets most requirements and is a good response in some areas	The design is presented and described well for the most part and in areas is particularly clear and justified.
7	A strong response that is very satisfactory in all areas and exceeds expectations in some areas	The design is presented and described very well for the most part and in areas is particularly clear and justified.
8	A very strong response	The design is presented and described very well throughout and in all areas is clear and justified.
9	Outstanding quality response	The design is presented and described in an outstanding way throughout, meets all requirements and in all areas is extremely clear and justified.
10	Exceptional response that exceeds the requirements	The design demonstrates exceptional responses that meets all requirements, exceeds the level of quality required in some key areas and has high artistic value.

The evaluation procedures and rules are described in more detail in Annex X4.

CONCLUDING TERMS AND CONDITIONS

This procurement is implemented according to the Law on Public Procurement, the Regulations on organising a project call for tender approved by Order No. 97 of the Minister of Environment of the Republic of Lithuania of 25 February 2003, other legislation and the competition conditions. The main terms are used, as defined by the Law on Public Procurement of the Republic of Lithuania. The procurement shall be completed pursuant to the principles of equality, non-discrimination, mutual recognition, proportionality, transparency and the requirements of confidentiality.

The main terms related to the public procurement procedures:

The supplier is any economic entity interested in participating in the competition of the project – a natural person, or a private legal person, or a public legal person or any group of such persons, which is able to prepare and submit the project;

The project submission (referred to as the project) is a submission prepared by the supplier, expressing an idea of the main solutions of the procurement object and prepared according to the project competition conditions established by the Contracting Authority.

The competitor is the supplier that has submitted the project submission;

The registration number shall mean the competitor‘s registration number which shall be written on all of the envelopes submitted (the package, the first and the second envelops) and on each sheet of the project documents provided in the first envelope (boards and indicated on the project design submitted). The competitor shall write the same registration number everywhere. The slogan shall be written in ‘Times New Roman’ font, 1.0 cm (18 pt), in the right upper corner of the board. Taking into consideration the fact that a large number of projects are expected, the organisers of the competition each competitor is requested to register on the competition website (http://competitions.malcolmreading.co.uk/scienceisland/) to receive a registration number, which will help to ensure a smooth administration process of the competition;

The registration information shall mean the package of documents to be submitted in the second envelope indicating the name of the competitor, company code, address of the office, phone and fax numbers, and documents certifying qualification as it is described in section ‘Submission Requirements’. See Annex X5.

Open project competition shall mean a procurement procedure, in which all interested suppliers may participate and submit the projects;

The project competition documents shall mean the documents published by the Contracting Authority or provided to the suppliers, describing the procurement object, procurement conditions and procedures, including a notice, notification, other documents and explanations of the documents, supplements of the documentation (clarifications).

All competition documents have been provided in both Lithuanian and English, and the information is identical in both languages. In the case of any conflicts, the Lithuanian version shall take precedence.

Natural, legal persons or groups of such persons shall have a right to participate in this open competition. A group of economic entities shall have a right to participate in this open competition by concluding a joint venture (partnership) agreement. To submit the project, the group of economic entities is not obliged to establish a legal person.

Before the expiration of the deadline for submitting projects, the competitor may amend or cancel its project by informing thereof in writing before the expiration of the project submission deadline. The project shall not be amended or cancelled, where the notification of the competitor is received after the expiration of the deadline.

By submitting the project, the competitor shall guarantee that it is acquainted with the documentation of this open project competition and agrees with its all provisions. The organisers of the competition shall not require security of the tender period of validity.

After the open competition of the project Kaunas City Municipal Administration, pursuant to the provisions of paragraph 3 of article 56 of the Law on Public Procurement, shall have a right (but shall not be obliged) to purchase the design services from the winners of I-III places elected by the Jury, by use of the Negotiated Procedure without Publication of a Contract Note. The Negotiated Procedure without Publication of a Contract Note shall be conducted according to the procedures of the Law on Public Procurement. Before the opening of the Negotiated Procedure without Publication of a Contract Notice

the winners of I-III places shall have to submit a list of the team of certified specialists who have a right to prepare projects for specific buildings according to the procedures established in Lithuania.

The competitors shall bear personal responsibility for ensuring that the project they submitted does not infringe intellectual property rights of any third parties, and shall be obliged to protect the organisers from any claims subsequently arising as a result of this.

At any time before concluding the agreement, the Contracting Authority, having received consent of the Public Procurement Office, shall have a right to terminate the procurement procedures where circumstances arise, which may have not been foreseen. Upon termination of the procurement procedure, the Contracting Authority shall inform all competitors thereof. The Contracting Authority shall not reimburse any losses to the competitors, which they incurred as a result of termination of the procurement procedures.

ANNEXES

X1 Minimum Qualification Requirements of Project Competitors

X2 Declaration of the Minimum Qualification Requirements

X3 Area Schedule

X4 Assessment Criteria and Procedures

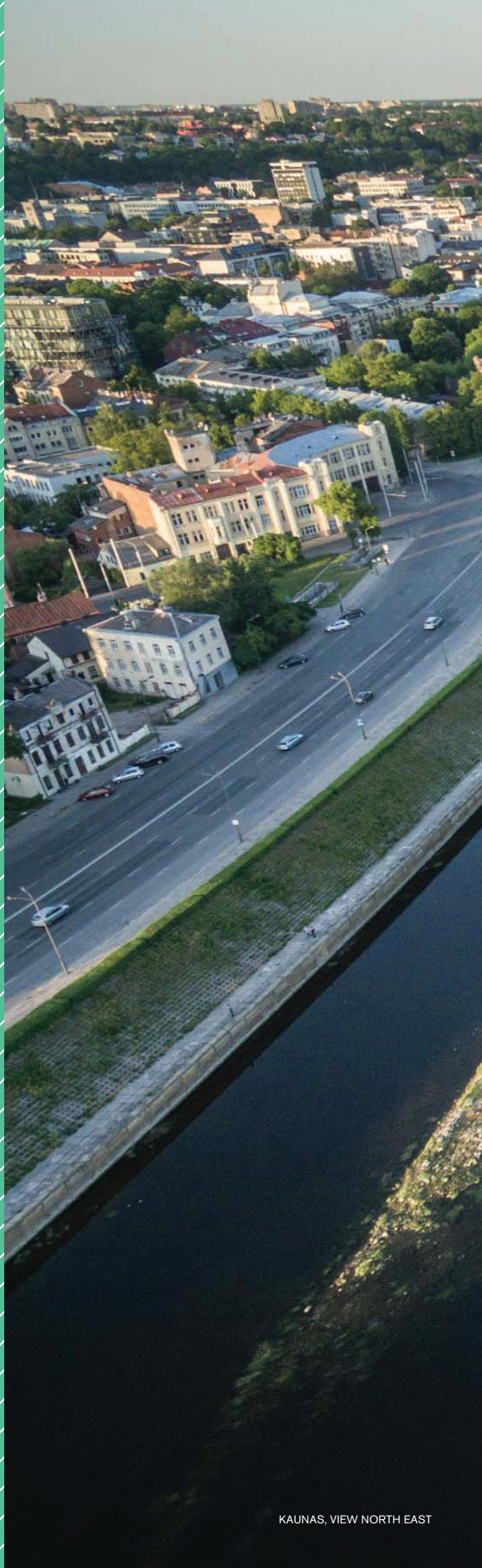
X5 Supplier Registration Form

X6 Nemunas Island Plans

X7 Žalgiris Arena Plans

X8 Concert and Convention Centre Plan

X9 Kaunas Key Buildings Map



KAUNAS, VIEW NORTH EAST