



BISCI Overview

<https://bisci-institute.com/>

**Brightlands Institute for Supply Chain
Innovation (BISCI)**

BISCI

Contents

- *About BISCI: Strategy, Vision, Capabilities*
- *Insights in Research, Education and Market Impact*
- *Out Support and other activities*



About BISCI:

Strategy, Vision, Capabilities

Our Strategy Journey

BISCI is about bridging...

Research, impact & education

- Reinforcing collaboration between research, impact and education
- Enabling researchers to engage in business-driven projects, aiming to use these results in high-level academic output
- Delivering cutting edge sustainable and digital supply chain innovation for stakeholders in public and private domain
- Creating career paths to reward an active role in BISCI projects

Organisations of Fontys, TNO and UM

- Cooperation between the various organisations
- Joint research projects, combining expertise
- Joint development of educational activities/materials

Extraordinary Supply Chain Innovation



Roman water management > 2000 years ago

Vision and Mission Statement

VISION

"BISCI accelerates the sustainable provision of products and services to consumers and businesses. By optimally using innovations in the field of digitisation and sustainability in supply chains."

MISSION

“Developing and realizing state-of-the-art smart and sustainable supply chain innovations by orchestrating resources and expertise from knowledge institutions, industry and government and such leading knowledge center for digital and sustainable supply chains to be with an international image and a great economic added value for the province of Limburg and beyond”

Our offerings sit across three areas

Societal impact across the Triple Helix

Research impact

- Supply Chain, digital and sustainability focus
- Fundamental, applied, and action based research
- Commissioned research projects

*Knowledge
development*

Educational impact

- Executive education
- Guest lecturing
- Module development
- Thesis supervision
- Internship opportunities
- PhD opportunities

*Knowledge
transfer*

Market impact

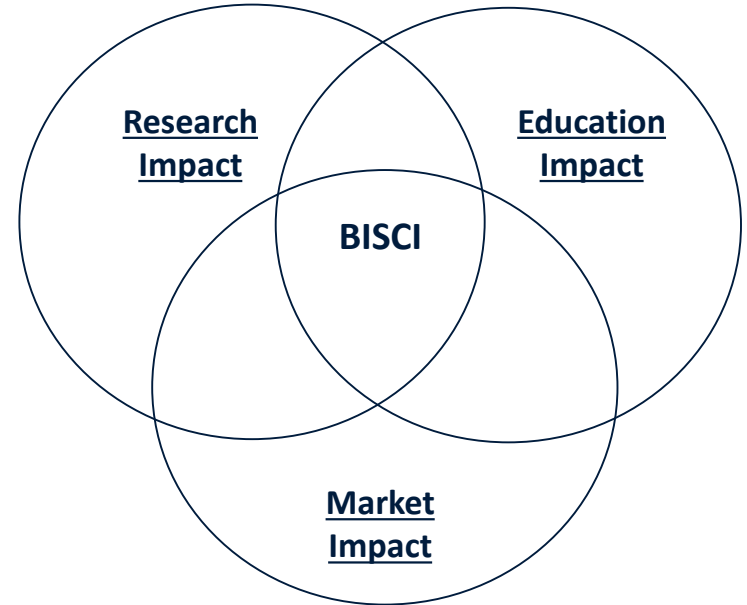
- Independent orchestration of innovation partnerships
- Independent advice
- Internships to transition advice to impact
- Solution co-creation

*Knowledge
implementation*

Our capabilities reinforce each other

Reinforcing research, market & education capabilities:

- BISCI delivers Research Impact through its research agenda to strengthen existing knowledge bases and to develop new knowledge
- Our Research Impact feeds our Education, aiming to improve our education programmes, building on tacit knowledge from Market Impact
- Our Education Impact uses this Research to create new modules, programmes for students and other stakeholders alike
- Our Market Impact uses Education as a tool in making impact
- Our Market Impact uses Research to provide valuable knowledge and insights for stakeholders



To achieve such synergy we use a twin model of a Research Lead and Market Lead in each ecosystem

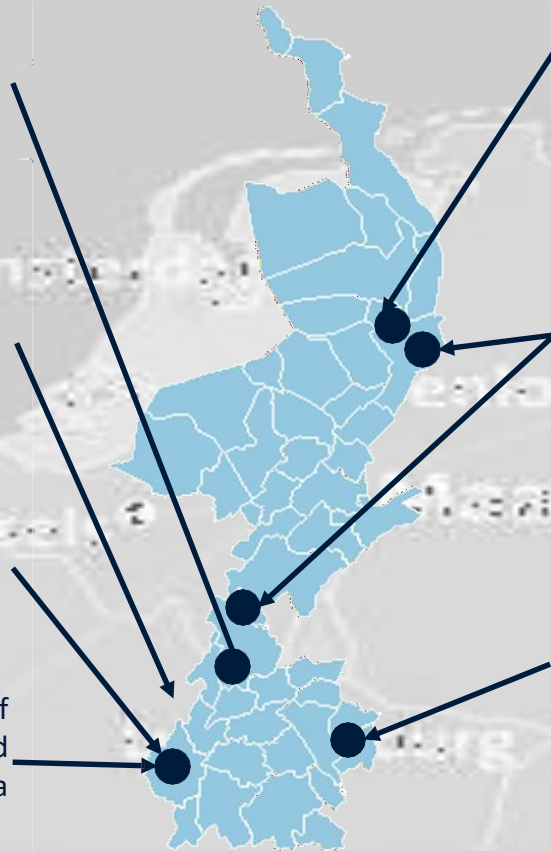
Overview of the industry ecosystems we focus on

Chemical Ecosystem: BISCI is collaborating with Groene Chemie coalition in the National Groeifonds, alongside Brightsite, TNO, Corbion, Cosun and Chemelot to develop a biobased feedstock, circular economy and recycling of waste as feedstock models, including supply chain and logistics consequences.

An international ecosystem: Through our Fair and Smart Data spearhead (UM/SBE) we are fostering an international ecosystem for Sustainable transitions for smallholder farmers through transforming global commodity supply chains.

GHG Scope 3 CO₂ research ecosystem: Cross-cutting research themes have started research on Scope 3 CO₂ emissions, investigating SBTi, registration methodology with our ecosystem partners and municipalities in our region.

Circular ecosystem: The unique positioning of BISCI will offer impact to research, education and industry to accelerate the transition towards a circular economy. Currently under development.



Agrifood Ecosystem: Several research projects are in the funding stages to research sustainability of international supply chains, from Africa. Healthy Primary School of the Future project completed.

Logistics Ecosystem: BISCI, having co-created Supply Chain Valley, now supports the further development of the logistics hub of North Limburg into a leading knowledge and capability centre for logistics in Northern Europe. We will develop a home for various transformational initiatives in the region such as Pioneers EU, Top Corridors and Regiodeal Noord Limburg. VDL Modal shift support was a key project.

Healthcare Ecosystem: The Healthcare Hub has been created between Boston Scientific, Arvato SCS, Philips and BISCI. The collaboration to improve hospital inventory management processes is in full swing, with early proof of concepts having been successful. Scaling up follows swiftly.

BISCI is active Internationally



The House of BISCI

Vision and goals: Joint vision of success for all three partners

Impact: themes across ecosystems

Ecosystems: The meeting place of Research, Education and Impact with our Stakeholders

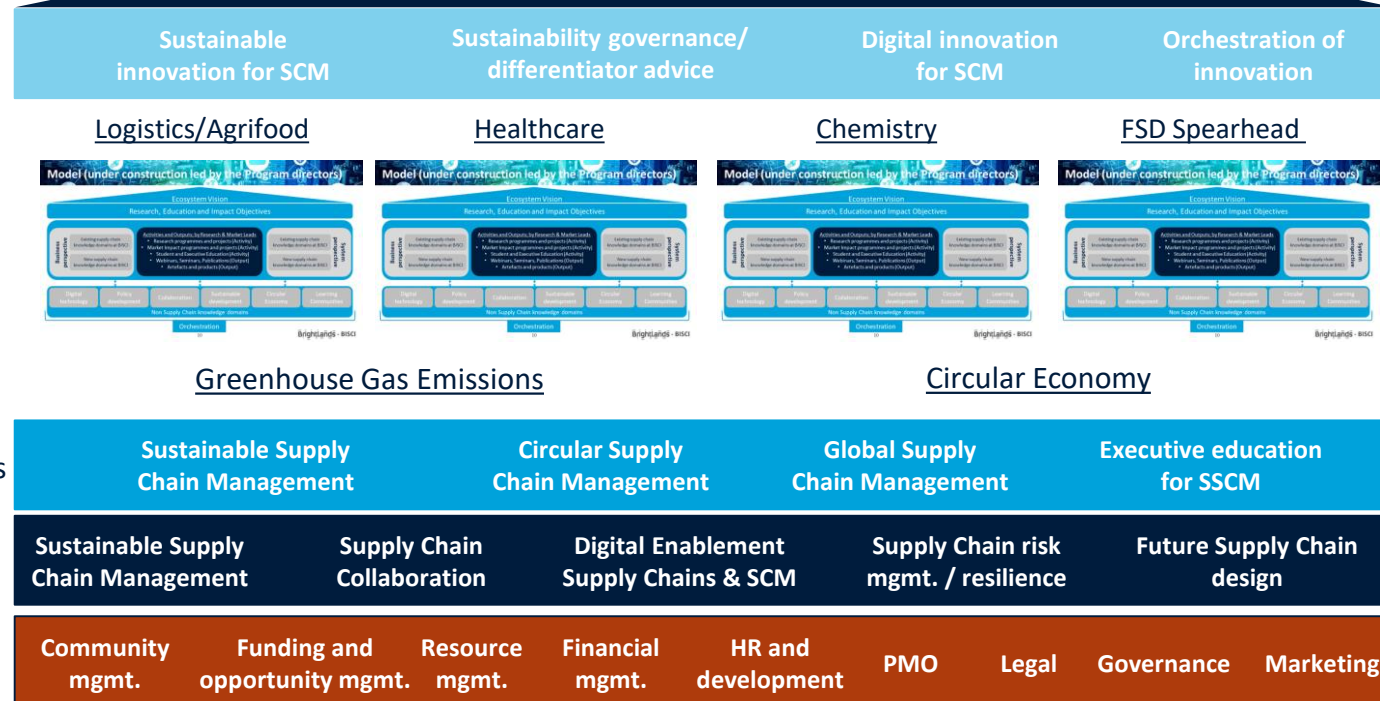
Education: themes across ecosystems

Research: themes across ecosystems

Operations: operational functions



BISCI Vision and Mission



Our joint research agenda

Use digital technology and SC collaboration to enable sustainable, circular and resilient supply chains while using learning communities for change

In BISCI we conduct research in the following innovative topics in the supply chain:

Energy transition
(sustainability measures and monitoring)

Resilience
(measures and risk management)

Circularity
(supply chain redesign)

Enabled by:

Digitalisation
(data driven decision making)

Supply chain cooperation
(alignment of activities)

With the aim to improve the performance in the full supply chain focussing especially on:

Sustainability –
reduction of emissions

Reliability – in situations
with small and large
distortions

Efficiency –
Optimal use of assets
and materials

For a number of relevant application areas in Limburg:

Smart and
Sustainable corridors

Smart and Sustainable
city logistics

Chemelot circularity &
feed stock transition

Healthcare digitization
to reduce stocks

Agrifood

Accomplishing innovation, implementation and valorisation by:

Setting up and organising learning communities
with companies and governments

Our principles



Trust and
sharing

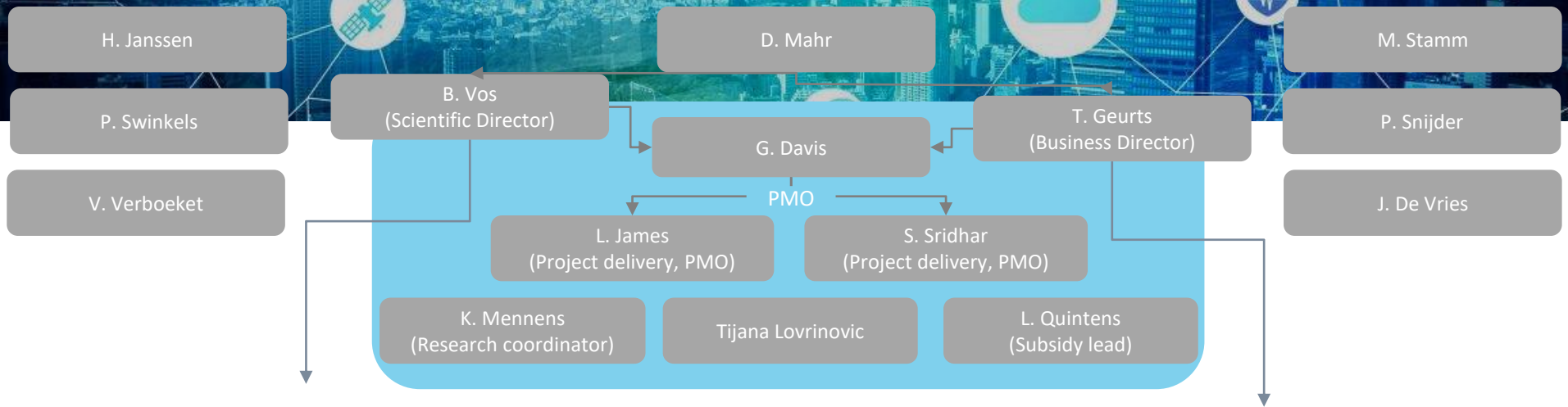
- Deliver value for all stakeholders, providing a system view of problems
- Be transparent in our way of working
- Collaborate – knowledge, resource, data
- Integrity, we will not work where we cannot make positive change
- We do not let outdated thinking and ways of working restrict us
- Sustainability as an ends, digital as means
- Striving for societal and business impact

Our differentiators



Standing out
from the rest

- Knowledge institute, crossing conceptual and geographical boundaries
- Not driven by profit
- Orchestration and bridging is a core competency
- Neutral meeting ground to share, learn and experiment
- A wealth of industry connections, from our network
- Bright young minds



Research impact



Market impact

R. Cörvers	SDDG – Fair and Smart Data	T. Geurts	S. Amar, E. Hoekstra, Vacancy
M. Ebrahim	Healthcare ecosystem	H. Willems	E. Schiffer
T. Cleij	Chemical ecosystem	H. Wories	M Tillij, J Urbanus
K. Alons	Circular ecosystem	L. James	L. Geurts, L. Meijer
L. Quintens	Logistics ecosystem	G. Zomer	G. Davis
L. Quintens	Fresh food safety ecosystem	L. Quintens	M. Figueira
K. Alons	Scope 3 GHG CO2	G. Davis	T. Geurts

Advisory Board

Prof. dr. Volker Stich



2014 – Present: Member of Supervisory Board, Enterprise Integration Center



2013 – Present: Director, Cluster Smart Logistics, RWTH Aachen



1997 – Present: Managing Director, FIR (Research Institute for Operations Management)

1985 – 1996 : Logistics Manager, Studies Director, Saint-Gobain Sekurit



Rene Knapen



1985 – Present: Director, TANS



2018 – Present: Chairman, DALTI (Dutch association of Logistics & Transport IT suppliers)



2012: Teacher, Post graduate course, Supply Chain Management, PXL Hasselt

1986 – 1990: Business Unit Manager, Miniware



Prof. dr. ir. Sander de Leeuw



2020 – Present: Professor, Wageningen University and Research, Chair of the Operations Research and Logistics group



2013 – Present: Professor of Supply Chain Management, Nottingham Business School



2002 – Present: Founder, Social research and business advisory services



2004 – 2020: Started as Assistant Professor, Associate Professor and then Professor, Logistics and Operations Management, Vrije Universiteit Amsterdam

2020 – Visiting Scholar, Zangeneh Logistics Center, Researching humanitarian logistics issues



2007 – 2008: Head of Studies, Windesheim Honors College, Zwolle



2002 – 2006: Senior Consultant, Minnow



1998 – 2002: Senior Consultant, KPMG



1996 – 1998: PhD Researcher at Massachusetts Institute of Technology



Bert de Wit



2017 – Present: Member of Supervisory Board, Holland International Distribution Council



1998 – Present: Started as Senior Project manager, currently Manager Business Development, LIOF



2016 – 2017: Member in Supervisory Board, BioPartner Center Maastricht



2015 – 2018: Director, Limburg Business Development Fund



2005 – 2011: Program Director, NV Regio Venlo

1997 – 1998: Senior Management Consultant, Twijnstra Guddé



1990 – 1997: Senior Management Consultant, Q-Consult Bedrijfskundige Adviseurs



Nanne Ohland



2020 – Present: Co-founder, E.gateway Cooperative U.A.



2020 – Present: Owner, Seamless International B.V.



2012 – 2020: CEO, Cargonaut

2012 – 2020: Member of Supervisory Board, CIN Finance

2012 – 2020: Member of Supervisory Board, Smartloos B.V.

2004 – 2012: Managing Director, Dartagan Biometric Solutions



1997 – 2004: Manager Business Development, Schiphol Group



Peter Jansens



2020 – Present: CEO, Olstein NV



2012 – 2020: Multiple roles as Director of Chemtech Center R&D, Director PMO, VP Technology and Project Management, VP and Program Director CatalystR&D at DSM



2017 – 2019: Member Technology Committee, VNO NCW



2010 – 2019: Member of Supervisory Board, Institute for Sustainable Process Technology



2016 – 2018: Member of Board, SusChem



2000 – 2010: Professor of Separation Technology, TU Delft



1994 – 1999: Assistant Plant Manager, Shell



Ivanka Janssen



2019 – Present: Started as SVP, Global Integrated Supply Chain. Currently Chief Supply Chain Office, Philips



2016 – 2019: Vice President Supply Chain Europe, Eastern Europe & Sub-Saharan Africa, PepsiCo



2010 – 2015: VP Global Route to market transformation, Diageo



2006 – 2010: Global Supply Chain Planning & Supply Chain Integration director, Philip Morris International



1996 – 2006: Multiple assignments in Asia, Russia and Mexico as Manager Customer Services and Logistics. Final role as Director Global Logistics and Distribution, Altria





Insights in Research, Education and Market Impact

Research impact overview

Research Ongoing

- Change Gear
- MARCONI
- Smart Logistics E-fulfilment Management (SLEM)
Smart Packaging
- Holland Robotics – Delivery in the Last Mile
- PhD – Lonneke Vocks
- Fair and Smart Data – the Currency for Global Sustainability
- GHG Emission Research Programme
- PhD – Karoline Kowalik

Research Upcoming

- Fresh Food and Safety
- EU Pioneers – Harbour of the future
- RegioDeal Noord Limburg – Resilience in Supply Chains
- Circular Economy / Circular Supply Chains research line
- PhD – potential candidate on human rights in global supply chains – lit review under way

Logistics Research projects

FLITS

MESDAG

PIONEERS

RAAK

Market impact overview

Projects completed

- Sustainability governance and risk management process (Synthomer)
- Sustainability governance/rating (Dundee Precious Metals)
- McKinsey Global Procurement Excellence 360 Tool Analysis and Study
- Circular economy strategy workshops with Bertelsmann Arvato
- Wessem Ports – Sustainability journey

Projects ongoing

- Healthcare Hub Phase 4
- Feedstock Transition (Chemelot, Brightsite)
- Innovation programme at DPM for Transformational Ideas
- Sustainability procurement support (Synthomer)
- GHG Scope 3 CO2 training (Synthomer)

Projects upcoming

- Healthcare Hub - Geostick and Rode Kruis
- NGF BioBased Proposal
- Procurement Development (Hytrol, Tata Steel Ijmuiden)
- Circular Supply Chains (Deloitte)
- Circular Packaging, Map Sustainability, Sustainability Training with Suppliers (La Lorraine Bakery Group)
- Steelpoort Maastricht Sustainability Roadmap

arvato
BERTELSMANN

Boston
Scientific

PHILIPS

synthomer

MK
MICHAEL KORS

Dundee
PRECIOUS METALS

VDF

Solidaridad

Rabobank

DSM

Deloitte.

BOSCH

McKinsey
& Company

Bertelsmann Circular Economy Workshop

Two days of intense and rewarding workshops on circularity and circular business models with a selected group of top executives from Bertelsmann, one of BISCi's very esteemed relationships.

Various ideas aimed at circular innovation were discussed and mutually these ideas were further developed. The meeting environment in the centre of Maastricht and the Tapijn building of our SBE/UM gave the space to these explorations!



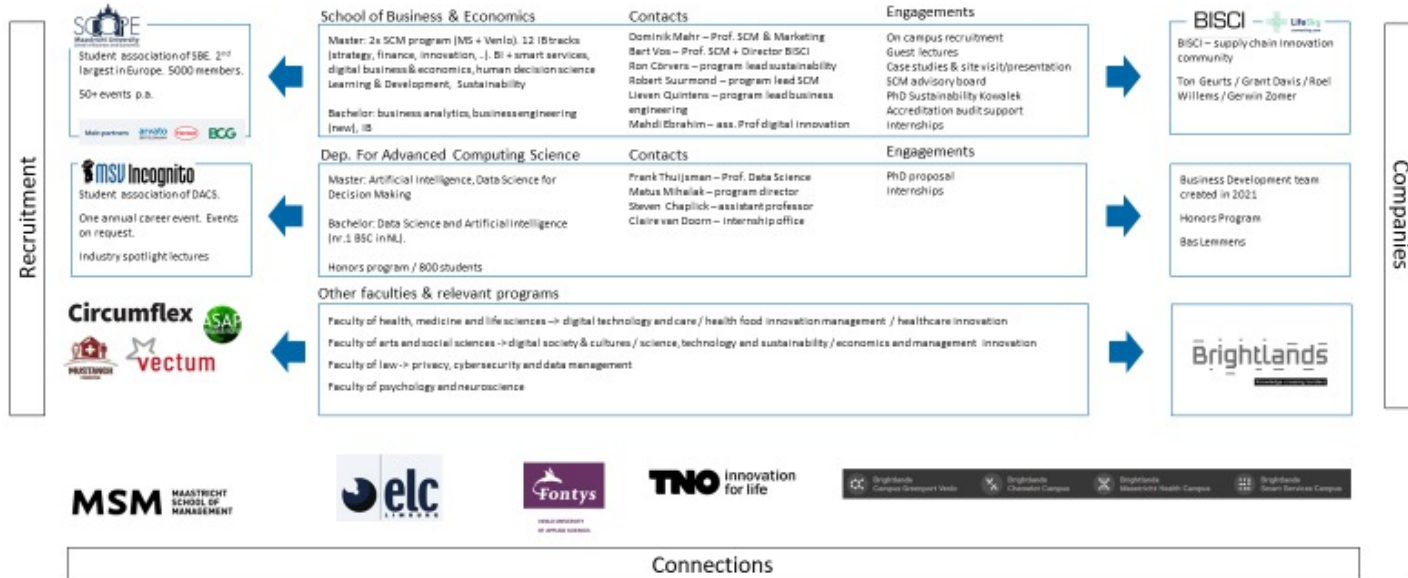
Circular Economy Key Note and Workshop – Arvato

- At the National Maritime Museum in Amsterdam Arvato/Bertelsmann ran their two day Masterclass. As a pre-read Karoline Kowalik had taken care of a **White Paper Circularity**, supported by BISCI.
- Opened by Andreas Barth, facilitated by Hugh Williams, the profound subject matter of circularity was addressed to some 60 C-level executives of Arvato's respected customers.
- Ton Geurts and Grant Davis were allowed a keynote and workshop on circular economy.
- In their keynote, Ton and Grant discussed the downsides of a linear economic model, the need to move to a circular economic model and applying circular economy in supply chain management. This was followed by circular economy workshops.
- The event also included very inspiring presentations on circular economy topics by Sean Culey and Robert O'Mahony from Logitech.
- The fireside talks between David Warrick, Microsoft and Andreas Barth, Arvato-Bertelsmann were deep and inside full.



Long term Partnership with Arvato Bertelsmann

Based on the fruitful cooperation with BISCI/SBE-UM, Bertelsmann is now exploring to build a similar relationship with RWTH – Aachen.



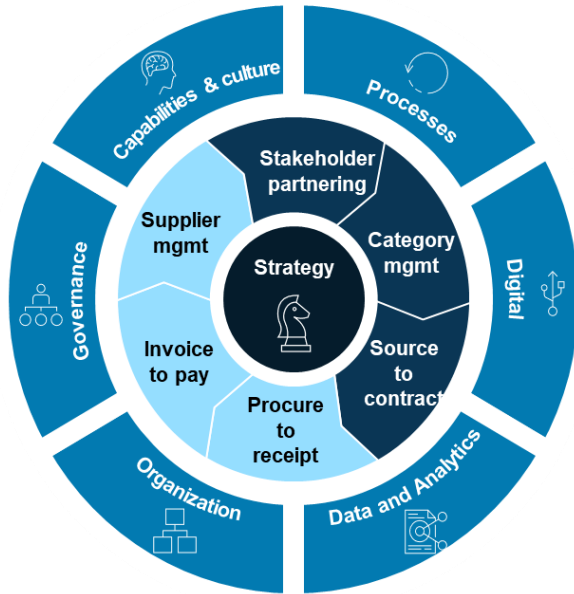
Synthomer workshop

On 14th June, the Synthomer global procurement leadership group met in London for deep dives and breakout sessions, also on their sustainability journey. Scope 3/CO2 was for sure in the heart of it. BISCI's privilege to support them in their journey. Passion & perseverance were clearly visible next to professional comradeship!



McKinsey Global Procurement Excellence 360 Tool Analysis and Study

Original



Changes made to GPE model

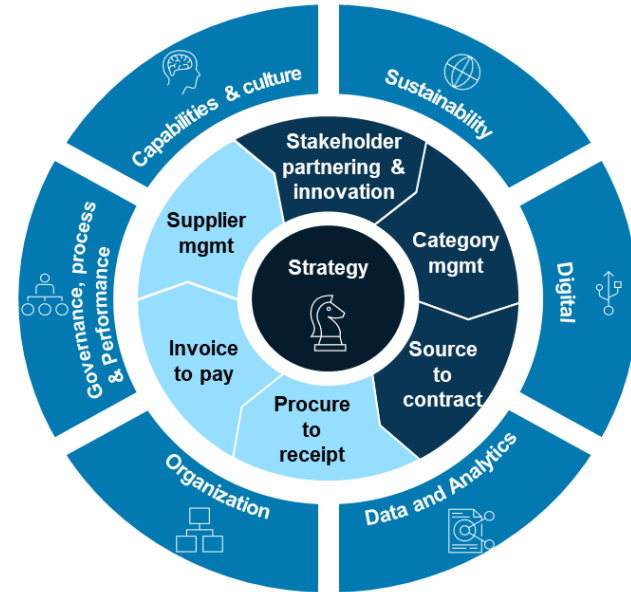
Dimensions

- Sustainability added as new dimension to reflect increased importance and new requirements and expectations
- Organisation included under Governance as questions are often Governance themed
- Performance added alongside Governance and Process to reflect importance in driving success of Procurement

Sub functions

- Innovation explicitly added in Stakeholder partnering as a key activity and source of value creation

Updated



Partners and collaboration through ecosystems

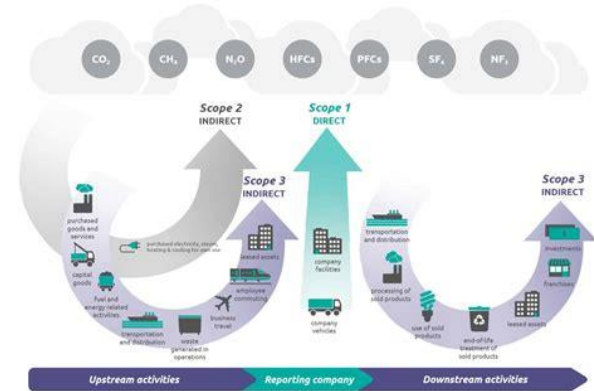


arvato
BERTELSMANN
Supply Chain Solutions



Recently BISCi was invited for a keynote and workshop on circular economy by one of BISCi's longstanding relationships – Arvato Supply Chain Solutions (Bertelsmann Group) with over 60 C-level executives of their customers. BISCi and Arvato together published a whitepaper on the topic “Circular Economy in logistics”

Across all ecosystems students are working on research and business projects



Our Greenhouse Gas ecosystem, by design, includes team members from TNO, Fontys and UM, who are working together to identify and solve the challenges for business, government and society, in partnership with 10+ companies

Education impact overview

Internship/Thesis Support

In 2021, a total of 32 students supported in internships and/or thesis, of which 3 students have continued to support BISCI as student assistants.

In 2022 over 50 students supported in their internships/thesis work with BISCI including thesis support to 6 students at Rotterdam Hogeschool.

Guest Lectures

In 2021, a total of 15 Guest lectures with a total of 985 participants were conducted at UM, Fontys, Zuyd, NEVI, UMIO, Rotterdam Business School, SCM Flanders and University of Arkansas.

In 2022, a total of 14 lectures and ~540 participants at SBE, Fontys, universities in Paris, York, Arkansas, Gent, Rotterdam and a special lecture on Doing Business in India at UM/SBE with ~250 students.

Executive Education

BISCI will conduct various executive education modules in 2022/2023 in support from the following,

- Supply Chain Masters (Belgium)
- VOKA (Belgium)
- NEVI (Netherlands)
- UMIO MBA Education
- UM-MSI-York

Other Education Support

We have Sustainability Education across various departments at UM/SBE

PhD support to Karoline Kowalik from Arvato SCS

VOKA – Antwerp/Waasland Event

Due to the various global and geopolitical events in the recent years, purchasing departments in particular have faced many challenges. More than ever, **this underlines the added value of a high-quality and resilient purchasing strategy**. In these challenging times it is important to pay sufficient attention to the creation of a resilient and independent purchasing strategy.

To address this topic, **Voka - Kamer van Koophandel Antwerpen-Waasland organised an information session** on a sound purchasing policy and to discuss the latest trends in purchasing.

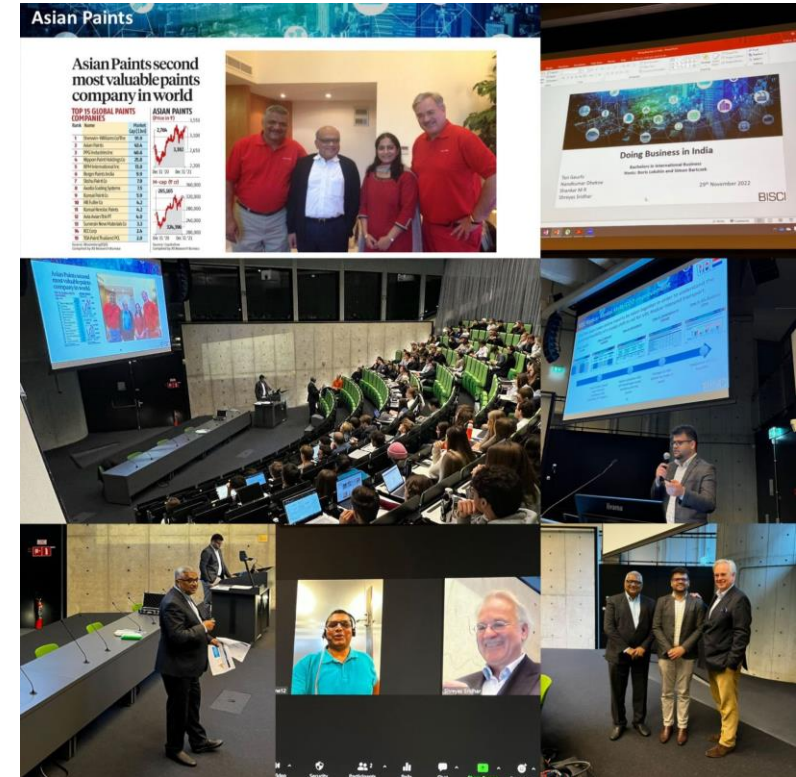
Organised at the **Kamer van Koophandel in Antwerpen – Waasland**, the event included keynotes from Ton Geurts, Business Director, BISCI and Ann Dhondt, Global Category Manager, Vodafone.

The event was attended by various procurement professionals from the region and also beyond. An interactive, insightful session ended with some friendly bites and networking.



Guest Lecture – Doing Business in India

- Guest lecture to the second year Bachelor students of International Business at UM/SBE on the topic of "Doing Business in India". The lecture was hosted by Dr. Simon Bartczek and Dr. Boris Lokshin.
- Speakers:
 - Ton Geurts, Business Director, BISCI;
 - Nandkumar Dhekne, Industry Independent Director and Consultant, former top executive;
 - Shankar M R, Global Sourcing Director, AkzoNobel;
 - Shreyas Sridhar, Project Manager, BISCI;
- The lecture presented the students with a new perspective of looking at a steadily developing India, the mind-set and the approach required to successfully do business in India.
- Ton and Nandkumar know each other from doing business in the past and their Harvard AMP 184 back in 2013. They shared their own experiences of working in India and doing business in India. Shankar and Ton who worked together in AkzoNobel presented a case study of AkzoNobel's success in India. Shreyas presented the perspective of an Indian student who moved to the Netherlands, why Indians move abroad to study and shared his experience of working with BISCI.
- We look forward to next year for a lecture on Doing Business in Africa/Brazil!!

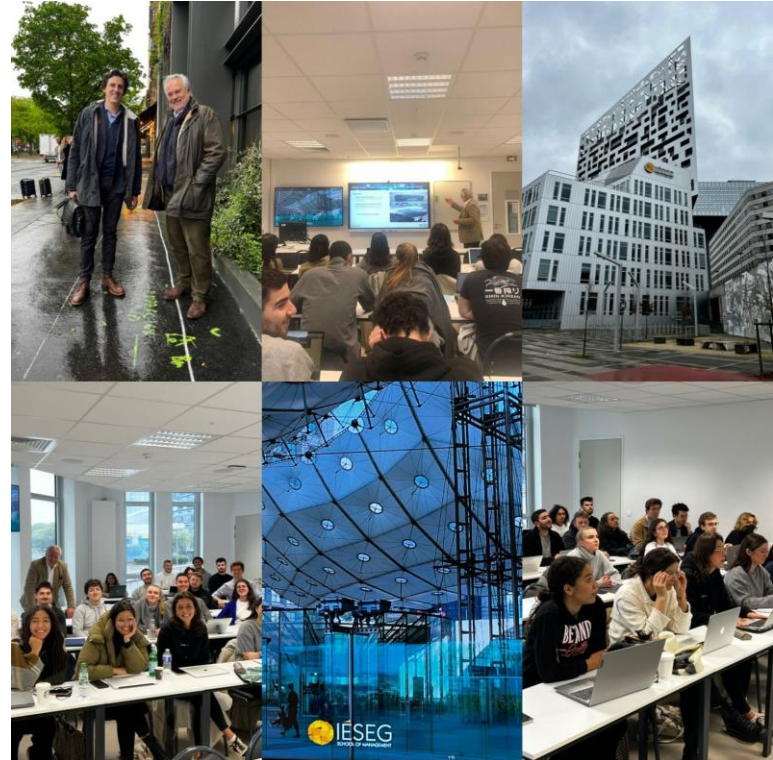


Education Impact

Ton Geurts at the IÉSEG School of Management (Institut d'Économie Scientifique Et de Gestion) at Paris on 01/04/2022 to deliver a half day guest lecture and discussion hosted by Prof. Bert Paesbrugge.

Comments shared by Master students of the Purchasing strategy course about the guest lecture:

- *“Inviting an important intervenant (speaker) made the course much easier to understand and apply to reality”*
- *“Many examples given”*
- *“Enthusiastic and clear.”*
- *“Wonderful experience of having a top speaker at our school”*
- *“Great!”*





Our support

Dynamic BISC I (15 Nationalities)

Our People

23 UM

3 TNO

4 Fontys

32 Interns

15
Nationalities

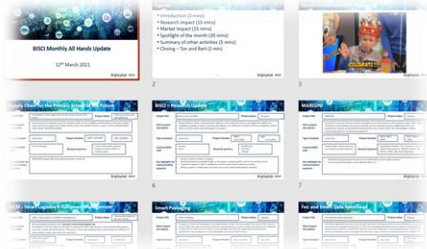
Business and
Academia

Digital and
Sustainability

Our Events



Our 'back office'



All Hands



LinkedIn

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News



BISC I Strategy Day and Summer Outing!
Strategy day and a summer outing for the BISC I team!
[read more](#)



Healthcare Hub Workshop
We were very excited to be able to host colleagues from Arvato SCS, Boston Scientific, Phillips and BISC I at our first physical healthcare Hub workshop. As a team we defined projects, the overall program structure, time lines and the way forward...
[read more](#)



BISC I helps Limburg remain a leader in logistics
Sustainability, food safety and data science. These all come together at BISC I, the Brightlands Institute for Supply Chain Innovation. Barely a year and a half after its launch, the Veldt Institute was awarded a Knowledge Axis grant of 1.5 mill...
[read more](#)



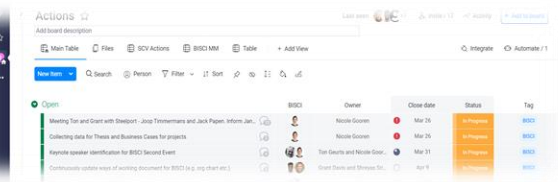
Supply Chain Valley and Arvato Supply Chain Solutions wins second place at materialfluss
Supply Chain Valley and Arvato Supply Chain Solutions wins second place in the materialfluss Product of the Year 2021 for the concept of SCV!
[read more](#)



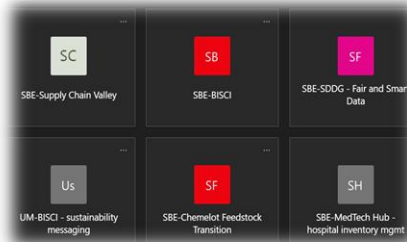
Brightlands Institute for Supply Chain Innovation
The Brightlands Institute for Supply Chain Innovation (BISC I) develops smart and sustainable innovations in supply chain management. Set up by Maastricht University and the Province of Limburg in early 2019, BISC I seeks to apply the latest results of logistics research to address the challenges of service providers in the region and beyond. In addition, the Institute trains the next generation of professionals who can contribute to supply chain innovation in the industry. BISC I derives its strength from closely collaborating with partners in the public, private and community sectors.
[Read more in About](#)

Website

<https://bisci-institute.com/>



Monday



MS Teams

BISCI other activities



*BISCI
Advisory
Board
Meeting*



Various Guest Lectures



Summer Drinks at the Vineyard



*BISCI – Solidaridad -
Rabobank (Fair and
Smart Data)*

BISCI Summer Drinks



Inaugural Address

On Friday, 28th October BISCO's Scientific Director, Prof. Dr. Ir. Bart Vos delivered an inspiring Inaugural Lecture as Professor of Supply Chain Innovation at Maastricht University School of Business and Economics on the topic "Images of Supply Chains: Transition paths towards a sustainable future".

This was Bart's second inaugural lecture and his passion for sustainable supply chains was visible through his use of metaphors to reflect upon key supply chain topics while taking examples of the BISCO projects; Healthy Primary School of the future, Smart Packaging and Fair & Smart Data.

The lecture was supported by fascinating images, an interactive intermezzo and later some beautiful music; all developed together with his three children showcasing true 'co-creation'.

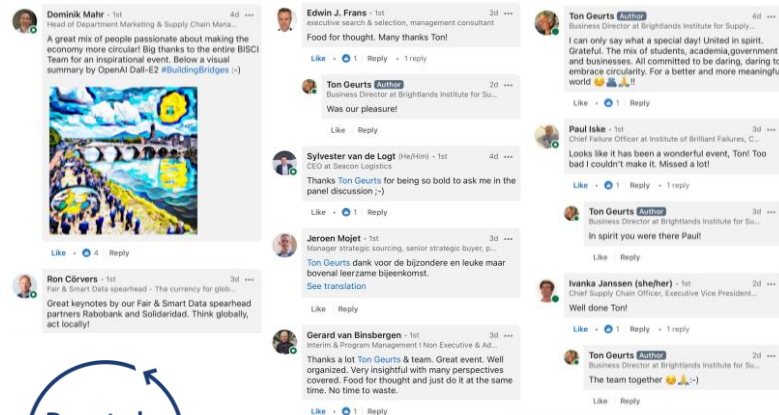


BISCI Event | Dare to be Circular | 2nd March



Time	Activity
8:20 – 8:50	Arrival and Registration
8:50 – 9:00	Welcome by the BISCI Partners: Maastricht University; TNO; Fontys University of Applied Sciences;
9:00 – 9:15	Opening by Prof. Dr. Mariëtte Heijltjes, Dean, Maastricht University School of Business and Economics
9:15 – 9:30	Overview of BISCI Activities 2020 – 2022 by; <ul style="list-style-type: none"> Prof. Dr. Ir. Bart Vos, Scientific Director, BISCI Ton Geurts, Business Director, BISCI (Coordinating the day)
9:30 – 10:00	Keynote – The Circular Economy: A meaningful world and smallholders perspective <ul style="list-style-type: none"> Jeroen Douglas, Executive Director, Solidaridad Network Jelmer van de Mortel, Head of ACORN, Rabobank
10:00 – 10:30	Keynote – The Journey of Renewable Feedstock <ul style="list-style-type: none"> Tom van Aken, CEO and Founder, Avantium
10:30 – 11:00	Break
	Breakout Logistics and Agrifood: What are the key challenges for circular economy to address in these industries? <i>Moderated by: Gerwin Zomer, Programme Director Logistics Ecosystem, BISCI</i>
11:00 – 12:30	Panel members: <ul style="list-style-type: none"> Eline Oudenbroek, VP Supply Chain/Operations EMEA, Interface Sylvester van de Logt, CEO, Seacon Logistics Marcel Koks, Industry & Solution Strategy Director, INFOR Bob Joosten, General Director, Wessum Port Services Group
12:30 – 13:45	Lunch
13:45 – 14:15	Keynote – The changing research landscape following the GreenDeal, COP27 <ul style="list-style-type: none"> Martijn Stamm, Market Director Traffic & Transport, TNO
	Parallel Breakout Sessions
	Breakout Chemical: The role of government and civil society in creating the Circular Economy. <i>Moderated by: Herman Worries, Programme Director Chemical Ecosystem, BISCI</i>
	Breakout Greenhouse Gas & Circular Economy: Circular Economy: a cross-sectoral view exploring Market, Implementation, Regulatory and conceptual lenses <i>Moderated by: Ton Geurts, Business Director, BISCI</i>
14:30 – 16:00	Panel members: <ul style="list-style-type: none"> Guy de Sevaux, Lead Biobased and Circular Economy, Invest-NL Anton van Beek, Group President UK, Nordic and Benelux, Chairman Board, The Dow Chemical Company Loek Radix, Chemelot Executive Director, Chemelot Marc Spekrijse, Managing Director, Circular Plastics NL
	Panel members: <ul style="list-style-type: none"> Laurent Beuselinck, Corporate Sustainability & Climate Change Partner Lead Southern Europe, Environmental Resource Management (ERM) Dieuwertje Ewals, Circularity Lead, Deloitte Netherlands Matthieu Ringallah, VP Innovation and Technology, Dundee Precious Metals Dick Velings, Managing Director, Eneco B2B Business
16:00 – 16:15	Break
16:15 – 16:45	Feedback – Breakout sessions by: Prof. Dr. Dominik Mahr, Head of Department, Marketing and Supply Chain Management, UM-SBE
16:45 – 18:00	Closing + Networking/drinks

BISCI Event | Dare to be Circular | 2nd March





Thank you