

Student projects dr. Jaap M. Vleugel

	Since	Passed	Exam planned	Project (P2)	KO	Proposal (P1)	Disc (P0)	Email	All
CEE5007 EngD	2021	7		3	6				
	2023		2						
TIL5050-20 design	2013	150G		3G			1G		
TIL5060 thesis	2012	63							
	2023	2	1	10		1	3		15
TIL5060 thesis advisor	2012	1							
AR3CS100 (land use)	2022	1							
ME54035 thesis	2010	36							
	2023	1	2						
MADE-TAC exam chair	2022	3	3						
MADE-TAC thesis	2023					1			
CT3200 (land use)	2015	4–6G / yr							
CIE4040-09 internship	2015	4							

CIE4040-09 Internships

TIL5060 thesis EXAM

[65] Tim Elbers, *Multi-attribute classification method for an FMCG supply chain – A case study at Heineken*, 21-06-2023, Delft. {Logistics / Inventory strategies}

TIL5060 thesis PROJECT

[Airport design/operations]

Lars van Biezen, *A simulation-based evaluation of ground handling operations on the Flying V, A case study at KLM, Delft*. {Airport operations / Emerging technologies}

Pieter Clemens, *To tow or not to tow? A holistic mission-based cost-benefit evaluation of engine-off dispatch towing*, project for KLM, Delft. {Airport operations / Emerging technologies}

[Logistics]

Koen Schukinck Kool, *Stacking yard process optimization in prefab concrete pile manufacturing, A simulation-based case study at Voton, Delft*. {Yard management / Scheduling}

Manuela Hooghwerff, *Design of the structure and operations of a control to optimally provide 4PL services*, project for NedCargo, Delft. {Logistics / Control tower}

Tijn Veen, *Nudging consumers into green product return alternatives in the fashion industry, The development of an index to provide insights in the carbon dioxide emissions and economic costs of product returns*, project for Metyis, Delft. {Logistics / Sustainable fashion}

Machteld Rouwé, *Reducing Logistical Effects of Equipment Breakdown during Installation of Offshore Wind Projects*, Heerema HES, Delft. {Logistics / Sustainable energy}

Susanne Zaal, *Creating more visibility and control in the truck arrival process at the warehouses of bol.com*, Delft. {Logistics / Warehouse management}

Yannick Hogers, *Recharge operations of a LAGV: The impact of charging operations on the operational availability of lift automated guided vehicle*, project for APMT, Delft. {Asset management / Container terminals / Emerging technologies / Fuels}

[Infrastructure planning & policy]

Thomas van Muiden, *A strategic vision for the port of St. Eustatius*, Delft. {Port development / Privatization}

Emmeline Batenburg, "Sustainability in infrastructure projects", project for PwC Delft. {Infrastructure planning / Sustainability}

[Public transport]

[Smart mobility]

[Sustainable transport]

TIL5060 thesis Kick-off planned

TIL5060 thesis Proposal ongoing

Khalid Asshab, *Optimising Maintenance strategies for insulated joints; comparison study of conventional strategies and feasibility study towards new alternative maintenance strategies. A case study at Asset Rail*, Delft. {Maintenance / Railway engineering}

TIL5060 thesis Discussion

Jelle van Leeuwen, "Dashboard voor kpi's", project for Heineken, Delft. {Supply chain management}

Anouk Gerritsen, logistics project for Royal Flora Holland, Delft.

Wisse Koopal, ..., project for Pon Automotive, Delft. {Supply chain management / automotive logistics}

TIL5060 thesis Email

MSc Thesis supervisor

[2023: xx]

[64] Daan Duthilh, *Reduce idle time for automated storage and retrieval systems, A Coolblue Case Study*, 07-06-2023, Delft. {Logistics / Warehouse automation / Information}.

[63] Thomas Teunisse, *The potential of autonomous charging for EV fleet operators*, project for RocSys, 20-04-2023, Delft. {Asset management / Container terminals / Emerging technologies / Fuels}

[2022: 14]

[62] Maikel Blom, *Potential of the E-Pusher as Transport Mode in the Dutch Carbon Capture and Storage System*, project for Kotug, 22-12-2022, Delft. {Sustainable barge transport / Maritime innovations}

[61] Rinke Jebbink, *The design of a 'water droplet'-based upf mitigation system at airports*, project for Schiphol Group, 20-12-2022, Delft. {Airport operations / Emerging technologies}

[60] Mike van der Meer, *Machine learning applications in supply chain management: A case study at MPO*, 08-12-22, Delft. {Supply chain management / Big data analytics}

[59] Laurens Gerlach, *Research on improving quay crane performance by predicting its cycle time taking the location of the (un-)loaded containers into account, A case study at APM Terminals Maasvlakte II*, 31-10-2022, Delft. {Container handling / Optimization}

[58] Daan Emmerig, *Towards sustainable logistics by evaluating the performance of carbon reduction strategies using a backcasting approach*, project for Heineken HNS, 24-10-2022, Delft. {Sustainable logistic strategies} /Cum Laude/

[57] Arthur van Bruggen, *Integrated inventory and warehouse operations model of aviation standard parts under a cap-and-trade policy, project for Fokker Services*, 10-10-2022 Delft. {Inventory management / Sustainable parts handling}

[56] Teddy de Jong, *Steering on mobility hubs: exploring the potential of an adaptive policy to guide the development of mobility hubs towards societal goals*, project for TNO, Delft, 26-09-2022. {Smart mobility}

[55] Marinke Ziedses des Plantes, *ZeroEmission Airside 2030 Backcasting Study at Rotterdam The Hague Airport*, Delft, 15-09-2022. {Airport development / Emerging technologies}

[54] Jonathan Imang, *Design and assessment of public transport policies for Greater Paramaribo*, Delft, 01-08-2022. {Public transport / Network optimization}

[53] Willem-Jan Eil, *The Impact of Order Characteristics Uncertainty on Different Configurations of the Outbound Logistics of a 3PL Warehouse, study for NedCargo*, Delft, 01-06-2022. {Logistics / DC design simulation}

[52] Claire Post, *Towards optimized customer segmentation parameters to reduce Cost-to-Deliver and Environmental Costs, A Case Study on Royal Philips*, Delft, 06-04-2022. {Logistics / Service optimization}

[51] Christine van Diemen, *Flash deliveries: value adding business model or societal nightmare? A qualitative research on the effects of flash delivery on the livability of Amsterdam*, study for Deloitte, Delft, 30-03-2022. {Logistics / Livability impact}

[50] Michiel Roos, *Managing car traffic by smart mobility hubs, towards effective policy making*, Delft, 29-03-2022. {Traffic management concepts}

[49] Michiel Nanninga, *Export costs and service conditions in times of a global container shortage, A case study for Heineken Netherlands Supply*, Delft, 15-03-2022. {Logistics / Asset management / Finance}

[2021: 10]

[48] Andrian Supryanto, *Redesign of reverse supply chain strategies for returnable packaging, A case study at Prysmian Group The Netherlands*, Delft, 23-12-2021. {Reverse logistics / Asset management}

[47] Jet Dijkzeul, *Exploring the reduction of lost parcels in the logistic chain, A case study at Bol.com*, Delft, 16-12-2021. {Logistics / Lost parcels}

[46] Jules Boelhouwer, *Towards an optimal distribution of lease bicycles, A case study at Swapfiets*, Delft, 02-12-2021. {Logistics / Asset management}

[45] Erik Hadders, *Incorporating interdependence into a decision support framework for the renewal of hydraulic infrastructure, A case study at Zoutkampstudy for TAUW*, Delft, 2-12-2021. {Water management / Asset management}

[44] Israe Chetouani, *Exploring integrated hubs, An exploratory study into the possibility of allocating logistics functions to mobility hubs*, study for AT Osborne, Delft, 29-11-2021. {Logistics concepts} – TRB congress paper.

[43] Hidde van Wezel, *Conceptual Design of a Parcel Hub Scheduling Process to Balance the Inbound Transportation Flow, a casestudy at DPD Veenendaal*, Delft, 16-11-2021. {Logistics / Scheduling}

[42] Quirine van Rooyen, *Towards a zero defect based assembly warehouse, A case study at DHL Supply Chain Bergen op Zoom*, Delft, 26-08-21. {Logistics / Assembly / Performance}

[41] Anne van Langevelde, *Designing a strategic process performance measurement system for the Dutch Flower Auctions*, study for Royal Flora Holland, Delft, 24-08-21. {Logistics / Performance / Management}

[40] Julius Scheepens, *Modelling the optimal customer-allocation in an edible oil supply chain network, A case-study at Cargill's fully refined rapeseed oil network in Western-Europe*, Delft, 26-05-21. {Logistics / Food / Finance}

[39] Vittorio Mandolesi, *Evaluating transport and warehousing costs savings opportunity through direct delivery implementation in a supply chain distribution structure with DCs: Case study at Philips coffee business*, Delft, 26-05-21. {Logistics / Non-food / Finance}

[2020: 9]

[38] Peter Joon, *Improving on-site logistics, The case of the on-site transportation planning of Tata Steel IJmuiden*, study for ORTEC. Delft, 15-12-2020. {Logistics / Planning}

[37] Stefan van Lier, *Optimizing solid waste management in theme parks, A case study at Efteling*, Delft, 04-11-2020. {Waste management / Sustainability}

[36] Max Buirma, *Ship based carbon capture storage and utilisation, A roadmap towards implementation for large LNG powered offshore vessels*, study for Heerema Contractors, Delft, 29-10-2020. {Sea shipping / Fuels / Sustainability} – Journal paper: energies-15-00813-v2

[35] Frank Heins, *Freight traffic on the Dutch railway network in 2030 and 2040*, study for DB Cargo Nederland, 29-09-2020. {Rail freight network analysis}

[34] Joost de Graeff, *Determining the feasibility of a new airport passenger terminal concept based on seamless flow technology, Mixing domestic and international passengers in passenger terminal facilities*, study for NACO, Delft, 20-08-2020. {Airport operations optimization}

[33] Ward de Jong, *Towards smart transport infrastructure, A concept roadmap to implement smart transport infrastructure for movable bridges in the Netherlands*, study for Witteveen + Bos, Delft, 17-08-2020.

[32] Iris Vendrik, *Strategies to regulate inbound logistics at convention centers, A case study of the RAI Amsterdam*, Delft, 01-07-2020. {Logistics / Area management}

[31] Tugba Uzel, *Information sharing and collaboration between the logistic partners of intermodal rail transport*, study for Port of Rotterdam Authority, Delft, 25-06-2020. {Port rail logistics / Cooperation}

[30] Willemijn van der Elst, *Towards continuous flow in production lines, A case study at Heineken Zoeterwoude*, Delft, 13-05-2020. {Logistics optimization}

[2019: 5]

[29] Jacob Thijssen, *How can financiers improve the carbon efficiency of their shipping portfolios. Case study at NIBC Bank*, Delft, 31-11-2019. {Sea shipping / Sustainability / Finance}

[28] Thomas Mulder, *How to increase local value added and make the supply chain of cashew nuts more sustainable*, study for TDG, Delft, 11-07-2019. {Logistics / Food / Sustainability}

[27] Tim van Rukke, *A-Pier Clean VOP Developing a strategy for on-time cargo delivery to the aircraft under clean apron conditions*, study for KLM Cargo, Delft, 24-06-2019. {Airport development}

[26] Jasmijn Kusters, *Exploring improved maintenance strategies of (r)gs at the intersection of principal-agent theory and economic relevance: A case study*, Delft, 09-05-2019. {Public transport / Asset management / Maintenance}

[25] Ilias Bouhannouche, *Evaluating the operational and financial feasibility of battery-electric AGVs at brownfield container terminals*, study for ECT, Delft, 07-02-2019. {Container handling / Asset management / Sustainability}

[2018: 9]

[24] Evangelos Giannoulakis, *Optimizing Packaging Availability for Reverse Logistics, A case study at ASML*, Delft, 10-12-2018. {Reverse logistics / Maintenance}

[23] Dioeke Tromp, *Airside vehicles: Roads to CO2 reduction The design of an Emission-Prediction-Decision Model (EPDM)*, Delft, 12-11-2018. {Airport / Asset management / Sustainability}

[22] Thomas van der Heijden, *Supply Chain Design for Heineken Flexbrewery*, Delft, 22-10-2018.

[21] Hadassa Stevens, *Towards an adequate methodology for GHG emissions accounting in logistics, A case study at Heineken*, Delft, 1-10-2018. {Logistics accounting / Sustainability}

[20] Hester Horn, *Decision support system design by means of a Customer Relationship Management strategy, Application in the retail banking industry*, Delft, 16-08-2018. {Financial decision-making}

[19] Rutger van Ouwerkerk, *Environmental network optimisation using Physical Internet logistics in the parcel delivery industry*, study for Post.nl, Delft, 31-07-2018. {Logistics / Sustainability}

[18] Wouter Cordesius, *Improve distribution network of BMN Bouwmaterialen*, Delft, 25-04-2018. {Logistics network optimization}

[17] Harmen Scholvinck, *Outbound logistics at Lidl DC, What process improvement can be implemented to achieve higher productivity?*, Delft, 18-04-2018. {Logistics improvements}

[16] Joke Blom, *Optimizing the track and traceability of packaging materials, a case study at Heineken HNS*, Delft, 22-01-2018. {Logistics optimization}

[2017: 7]

[15] Rex van Damme, *Product allocation strategies in a saturated distribution center, Case study at the L'Oreal distribution center (Alphen a/d Rijn)*, Delft, 29-11-2017. {Logistics}

[14] Max Mol, *Design of an End-State Cross Docking Hub for a Pure Online Grocer, A case study at Picnic Supermarkets*, Delft, 23-10-2017. {Logistics network / Customer-driven}

[13] Simone Rietbroek, *A service level optimization - A case study at HEMA logistics*, Delft, 17-10-2017. {Logistics optimization}

[12] Anna Simons, *Strategic positioning of the customer order decoupling point in a project based organization*, study for Vanderlande, Delft, 27-09-2017. {Logistics decision-making}

[11] Katharina Peer, *The impact of pre-sorting and conveyor configuration on material flow performances at a parcel hub, A case study at TNT Express*, Delft, 26-06-2017. {Logistics / DC technology}

[10] Robin van der Sande, *Analysis of filler dwell time and the financial consequences for Euro Pool System*, Delft, 09-05-2017. {Logistics / Asset management / Finance}

[9] Joris Jacquemijns, *Improving the lead-time for ACD products in the distribution center of L'Oreal located in Alphen aan den Rijn*, Delft, 23-03-2017. {Logistics optimization}

[2016: 3]

[8] Jaap van der Steenhoven, *Optimizing Logistic Flows at Action DC Echt*, Delft, 04-10-2016. {Logistics optimization}

[7] Dino Ramic, *CTT Rotterdam case study: development and improvement of the tri-modal inland container terminal at Rotterdam*, Delft, 28-09-2016. {Container terminal development}

[6] Anniek de Milliano, *A supply concept for the delivery process of nanostores at NS train stations*, Delft, 18-08-2016. {City logistics}

[2015: 2]

[5] Nadezda Iakovleva, *Development of impact assessment methodology for sustainable city logistics initiatives: case of SMARTFUSION project*, Delft, 2015. {City logistics / Sustainability}

[4] Daphne Kerpel, *Analysis of main factors in site selection for Distribution Centers in a port area and the hinterland*, Delft, 22-06-2015. {Logistics / DC location choice}

[2014: 1]

[3] Celenie Piccot, *Influence of the performance of hinterland transportation in port choice decision making*, Delft, 08-01-2014. {Freight transport / Hinterland}

[2013: 2]

[2] Roger Peeters, *Green City Distribution*, Delft, 2013. {City logistics}

[1] Erik Altena, *Optimization of modal shift and empty container repositioning at Maersk Line*, Delft, 08-04-2013. {Freight transport / Empty container management}

MSc Thesis advisor 2013+

Msc TIL

Neal de Vreede, *Improving performance of cargo acceptance process at Air France - KLM Cargo*, Delft, 09-03-2017. {Air freight handling}

Msc Strategic Product Design / IDE

Melanie Rumpf, *An innovation approach towards sustainable mobility in 2035, creating strategy for Embraer*, September 2019. {Aviation / Sustainability}

Bsc Thesis advisor 2013+

Kirsten Cordula Wittig, *met de TEN naar de grens en weer terug? Problematiek rond de grensoverschrijdende infrastructurele projecten Betuweroute en de hogesnelheidslijn*, Bachelor scriptie Planologie, Universiteit van Amsterdam, 23-06-2013. {Cross-border rail freight services / Bottlenecks}

CIE4040-09 Internship supervisor 2015+

[4] Tijn Voorkamp, *Privatization/commercialization of the air- and seaport*, Directorate of Transport, St. Eustatius, 25-07-2022. {Air-, sea transport / Finance / Regulation / Policy-making}

[3] Matthijs Baurichter, *Feasibility measurement model for rail PPS in developing countries*, UIC, Paris, 26-07-2019. {Rail transport / Finance / Regulation / Policy-making}

[2] Niek Meurs, *Production Plan for High Speed Craft*, Damen Shipyards, Antalya, 18-10-2016. (Ship design)

[1] Neal de Vreede, *Unilever Benelux Supply Chain software migratieprocessen*, 12-05-2016. {Logistic software development}

MSc TIL5050-20/12 Design > Sustainability

Emmerig, D., Siderius, J., Savalle, T., Eichenauer, N.M., Heineken zero emissions, 08-02-2022.

Blom, M., Bogerd, D., Bosma, M., Elbers, T., Blaak, C., Analysis of the sustainability aspects in the dutch underground telecom network, report for Prysmain Group, 04-02-2022.

Amjad, A., Bommer, L., Hadders, E., Veer, R. van, Vreede, S. de, *Solar based methanol production in Oman*, report for TUD P&E Zero Emission Fuels, 29-04-2021.

Barneveld, A., Bentem, L. van, Bron, T., Ensing, J., Ziedses des Plantes, M., *Emission-free alternative K5*, report for Post.nl, 21-04-2021.

Diemen, C. van., Vianen, J., Dijkzeul, J., Supriyanto, A. W., Moorlag, L., *Regional Barge Team*, report for FYNLY/SUIT-CASE, 23-02-2021.

Parrondo Ojanguren, D., Seher Cebeci, M., Rozing, S., Skoulas, V., Yan, Z., *Metropolitan Hub Design for Utrecht City*, report for FYNLY/SUIT-CASE, 4-02-2021.

Chandrashekar, V., Miao, R., Piña, M., Singh, J., Heemstra, S. van, *Opportunity for LTL: Towards a Greener Business*, report for Sennder, Delft, 29-01-2021.

Dik, K., Geurts, J., Langevelde, A. van, Temlali, S., *Framework for a metropolitan hub, Final report on the design of a framework for a construction materials hub in the Metropole Region of Rotterdam*, report for FYNLY/SUIT-CASE, 09-07-2020.

Band, M., Boertje, L.J., Trepot, J., Wiel, T.W. van de, *Freight Logistics in M4H Rotterdam*, report for Ingenieursbureau Rotterdam, Delft 05-05-2020.

Chung, E., Hoof, F.M., Joon, P.J.A., Leeuwen, B. van, Poelgeest, M. van, *Developing a decision support tool to assess the feasibility of the Asphalt Recycling Train in The Netherlands*, report for DuraVermeer, Delft, 09-03-2020.

Grolle, J., Koev, V., Oostenbroek, A., Strikwerda, N., Woensdregt, K., *Improving KLM's waste stream logistics*, Delft, 12-02-2020.

Broekman, M., Loudon, E., Graeff, J. de, Kalf, H., *Sustainable taxiing and push back in 2030 on Schiphol for Transavia*, Delft, 05-02-2020.

Bentem, K., Buirma, M., Duurling, K. van, Schuckink Kool, K., Turhan, E., *Alternative marine fuels, A cost comparison model for 2050*, report for TUD P&E Zero Emission Fuels, Delft, 10-12-2019.

Buitenweg, A., Rooij, D. van, Vendrik, I., Verhoeven, K., Volberda, L., *Analytically determining the optimal location for a solar methanol farm*, report for TUD P&E Zero Emission Fuels, Delft, 08-05-2019.

Indriana, I.R., Apparcel, M., Boogaard, R. van den, Jonsdottir, S.B., Gan, Z., *Transportation optimization of BCTN's terminals*, Delft, 31-11-18.

Cheng., P-Y., Ebers, Th., Rugge, T. van, Zuurbier, E., *Exploring the Smart Place Concept – A case study for the municipality of Amsterdam and Goudappel Coffeng*, Delft, 30-04-2018.

Alphen, M.C., Overtoom, I.A.E., Rieske, J.H.E., Verweij, K.M., *Turnaround terminal*, report for Deerns, 24-04-2018.

Diran, D.D., Cornelisse, E.P., Rijsman, L.F., Aanhane, F.H.J., Heijden, T. van der, *Taxsea!, Optimization of crew change logistics in offshore industry*, report for Ampelmann, Delft, 23-08-2017.

Bronsvooort, K.A., Dokter, A.L., Versluys, G.V., Zuniga, E.A., *Parking facility design for the future*, report for Deerns, Delft, 18-05-2017.

Dimitropoulos, Ch., Soekander, L., He. Y., Xie, W., *Delft Smart City, Planning for the future of Delft Schieoevers North*, project for Delft Municipality, Delft, 10-02-2017.

Arends, E., Borst, L., Mensink, V., Pronk, R., Tuin, M. van, *EV-Box in the USA, Designing the most cost-efficient way to assemble and deliver charging stations*, Delft, 23-06-2016.

Klein, A., Vaessen, M., Vreede, N. de, Welsenens, J. van, Yu, S., *Analyses and recommendations on the distribution and warehousing processes of Foods and Home & Personal Care shared SKU's in the Benelux*, project for Unilever Benelux, Delft, 21-01-2016.

Looff., E., Roelofsen, D., Schoenmaker, H., Straaten, J. van, *Composite access structures, towards implementation*, project for Huisman Equipment B.V., Delft, 12-01-2016.

Blangé, J., Geerts B., Li, T., Zhou, T., *Feasibility of car-free cities*, final report TIL Designproject, internal TUD project, Delft, 30-06-2014.

Blijenburgh, R., Kerpel, D., Nieuwenhuijsen, J., Tielbeek, E., *A refreshing insight in transport solutions for Heineken*, Delft, 23-06-2014.