

## BIOGRAPHY

Prof. Dr. Bertrand Loison has +25 years of experience in Management of Information Systems (MIS), mainly in the Public Sector. He is currently Vice Director-General and Head of Data Science & Statistical Methods Division at the Swiss Federal Statistical Office (SFSO), Swiss Representative to the UN Committee of Experts on Big Data and Data Science for Official Statistics, Member of the International Advisory Committee for the UN Cloud Global Platform's Regional Hub in China and Member of the Singapore Department of Statistics Advisory Panel. In addition, he was Vice-Chair of the National Planning Committee eGovernment Switzerland between 2016 and 2021.

Currently, he heads the Data Science Competence Center (DSCC) that supports Swiss Federal Agencies to implement evidence-based decision-making processes based on Data Science and AI. In addition, he is responsible for the Swiss Confederation's Artificial Intelligence Competence Network (CNAI).

Previously he was responsible for the National Registers Division (120 staff), Chief of the Corporate Data Management Section, and Chief Information Officer (CIO) after spending many years in the private sector as an Engineer. He also served as Reserve Officer for 30 years in the Swiss Army. He is now retired from the Army with the grade of Lt-Colonel.

Since September 2018, Bertrand has been an Honorary Professor of Management Information Systems at the University of Applied Sciences and Arts Western Switzerland (HES-SO), School of Management Arc, Institute for the Digitalization of Organisations (IDO). He is also Visiting Professor at the University of Navarra (ES), Institute for Data Science and Artificial Intelligence (DATAI). His research interests are in Decision Intelligence applied to the Public Sector.

Bertrand Loison earned his Bachelor's Degree in Engineering and a Post Graduate Diploma in Management from the University of Applied Science and Arts Western Switzerland. His MSc and Ph.D. in Management Sciences are from the University of Sorbonne Paris I (F). He also earned a Master of Public Administration (MPA) from the University of Lausanne (CH), a Post Graduate Diploma in Information Technology from the University of Fribourg (CH), a Post Graduate Diploma in Digital Excellence from IMD (CH), and a Post Graduate Diploma in Data Science from the Purdue University (US).

He is fluent in French, German, English and has basic knowledge of Italian.

## HIGH LEVEL PANEL DISCUSSION

### 2019

5th International Conference on Big Data for Official Statistics (2019), Chair: Dominik Rozkrut (Statistics Poland), Panel: Tom Smith (Data Science Campus ONS), Prof. Dr. Bertrand Loison, (Data innovation strategy), (Swiss Federal Statistical Office), Eduardo Barredo-Capelot (Data innovation in Eurostat), Tom Wilkinson, (DFID), Dr. Charles Lebon Mberi Kimpolo, (Director of AIMS Industry Initiative), Ms. Ibtissam Sahir, (GOPA), [Panel Data Science and Capacity Development in Official Statistics](#), United Nations Global Working Group on Big Data for Official Statistics, Kigali, Rwanda, 2019

### 2018

16<sup>th</sup> IAOS Conference - Better Statistics for Better Lives (2018): Chair: Mariana Kotzeva (Eurostat), Panel: Prof. Dr. Bertrand Loison (Swiss Federal Statistical Office), Jinwoo Park (Statistics Korea), Eric Rancourt (Statistics Canada), Michail Skaliotis (Eurostat), [Innovation challenges for official statistics](#), International Association for Official Statistics (IAOS) and the Organisation for Economic Cooperation and Development (OECD), Paris, 2018

## PUBLICATIONS

### 2019

D. KUONEN, B. LOISON (2019), [Production processes of official statistics and analytics processes augmented by trusted smart statistics: Friends or foes?](#), Statistical Journal of the IAOS, vol. 35, no. 4, pp. 615-622, 2019

### 2018

B. LOISON, D. KUONEN (2018), [Are Current Frameworks in the Official Statistical Production Appropriate for the Usage of Big Data and Trusted Smart Statistics?](#), European Union, Eurostat, Director General of the National Statistical Institutes (DGINS) Conference, Bucharest, Romania, 2018

B. LOISON, (2018), [Swiss Federal Statistical Office - Data Innovation Strategy](#), United Nations Statistical Commission, Wiesbaden Group Conference, Neuchâtel, Switzerland, 2018

B. LOISON, D. KUONEN (2018), [Fiabilité des Big Data du point de vue des statistiques officielles](#), Bulletin Académie suisse des sciences humaines et sociales, ISSN 1420-6560, Berne, Switzerland, 2018

B. LOISON, S. BRENNER (2018), [Data Governance as part of a new Swiss eGovernment Strategy?](#), BFH-Zentrum Digital Society, Berner Fachhochschule, Bern, 2018

### 2017

B. LOISON, D. KUONEN (2017), [Data Innovation Strategy](#), No OFS 1788-1700, Swiss Federal Statistical Office (FSO), Neuchâtel, 2017

B. LOISON (2017), [Registers Strategy](#), No OFS 1678-1700-05, Swiss Federal Statistical Office (FSO), Neuchâtel, 2017

### 2014

C. MACCHI, B. LOISON (2014), [The use of quality procedures through the example of a statistic based on registers](#), Session 5: Multi-Source Data Production, European Conference on Quality in Official Statistics (Q2014), Vienna, Austria, 5 June 2014

### 2011

B. LOISON, P. I. YANEV, J-F. FRACHEBOUD (2011), [SDMX: strategic and operational challenges for a national implementation](#), UNO - Economic and Social Council - Conference of European Statisticians, Geneva, Switzerland, 14 June 2011

### 2007

B. LOISON (2007), [Conceptual Architecture of the Statistical Information System at the Swiss Federal Statistical Office](#), Joint UNECE/EUROSTAT/OECD Work Session on Statistical Metadata, 2007

### 2005

G.WEGMANN, J.REGEV, B. LOISON (2005), [Business and IT Alignment with SEAMAA, INTEROP](#), (47 partenaires de 15 pays), Paris France, 29-30 August 2005

## CONFERENCES/PRESENTATIONS

### 2021

B. LOISON, C. CHOIRAT (2021), Swiss Digital Day 2021, [Do you speak data?](#), 9 November 2021, Lausanne, 2021

B. LOISON (2021), [University of Geneva's Data Science Day](#), Data Science for Public Good & SDGs, September 16, 2021, Geneva, Switzerland, 2021

B. LOISON (2021), Conference (Webinar) organized by DANE & Cepei & Swiss Confederation, [The use of non-traditional data sources for Official Statistics in the Latin American and Caribbean Region](#), June 24, 2021 | 12:30h to 14:00h (GMT-5), Bogota, 2021

B. LOISON (2021), Conference (Webinar) [Data Science for Official Statistics](#) organized by United Nations & Facebook AI & Data Science Campus (UK) & Openmined, Data Science Competence Centre throughout the Swiss government, June 30, 2021 | 16:00h to 18:00h (CEST), New-York, 2021

## 2020

B. LOISON (2020), Keynote Speaker at 7th Swiss Conference on Data Science - SDS2020, [New Paradigm for Compiling Official Statistics](#) - Data Innovation, Online (Luzern KKL before Covid-19), Switzerland, 2020

B. LOISON (2020), Round Table E-Government Swiss Confederation, [FSO's Data Science Competence Center](#), Bern, Switzerland, 2020

B. LOISON (2020), Keynote Speaker at 7th Swiss Conference on Data Science - SDS2020, [New Paradigm for Compiling Official Statistics](#) - Data Innovation, Online (Luzern KKL before Covid-19), Switzerland, 2020

## 2019

B. LOISON (2019), Symposium Data Science and Official Statistics, 62nd ISI World Statistics Congress, [New Paradigm for Compiling Official Statistics](#) - Data Innovation, Kuala Lumpur, Malaysia, 2019

B. LOISON (2019), 67th plenary session of the Conference of European Statisticians, The United Nations Economic Commission for Europe (UNECE), Chair of session Accessing new data sources, <https://www.unece.org/index.php?id=48575>, 26 - 28 June 2019, OECD, Paris, 2019.

B. LOISON (2019), 5th International Conference on Big Data for Official Statistics - Seminar, [New Paradigm For Compiling Official Statistics - Data Innovation](#), United Nations Global Working Group on Big Data for Official Statistics, Kigali, Rwanda, 2019

## 2018

B. LOISON, D. KUONEN (2018), [Are Current Frameworks in the Official Statistical Production Appropriate for the Usage of Big Data and Trusted Smart Statistics?](#), European Union, Eurostat, Director General of the National Statistical Institutes (DGINS) Conference, Bucharest, Romania, 2018, 10-11 October 2018

B. LOISON, (2018), [Swiss Federal Statistical Office - Data Innovation Strategy](#), United Nations Statistical Commission, Wiesbaden Group Conference, Neuchâtel, Switzerland, 2018

B. LOISON, (2018), [Les +40 ans en Suisse - point de vue de la statistique publique](#), FHSuisse, Fribourg, Switzerland, 2018

## 2017

B. LOISON (2017), « [The SFSO Data Innovation Strategy](#) », Swiss Days of Official Statistics, Frauenfeld, Switzerland, 21-22 November 2017

B. LOISON (2017), « [Numérisation des administrations publiques](#) », Brown Bag, Neuchâtel, Switzerland, 27 September 2017

## 2015

B. LOISON (2015), Workshop « [Nationale Dateninfrastruktur](#) », Konferenz Opendata.ch/2015, Bern, Switzerland, 20 Juli 2015

B. LOISON (2015), « [La poursuite de la cyberadministration suisse dès 2016](#) », 4ème eGovernment Symposium Romand, Neuchâtel, Switzerland, 8 Mai 2015

#### 2014

B. LOISON, C. MACCHI (2014), « [The use of quality procedures through the example of a statistic based on registers](#) », European Conference on Quality in Official Statistics (Q2014), Vienna, Austria, 5 June 2014

#### 2011

B. LOISON, P. I. YANEV, J-F. FRACHEBOUD (2011), Discussion Paper « [SDMX: strategic and operational challenges for a national implementation](#) », UNO - Economic and Social Council - Conference of European Statisticians, Geneva, Switzerland, 14 June 2011

#### 2009

B. LOISON (2009), « [Why a integrated Statistical Information System ?](#) », Joint UNECE/EUROSTAT/OECD Work Session on Statistical Metadata, 18 September 2009

#### 2008

B. LOISON (2008), « [Managing the Information Systems for Census 2010](#) », CEE/Eurostat, Information Technology Directors, Luxemburg, Luxemburg, 13-14 October 2008

#### 2005

B. LOISON (2005), « [Web based tools for Raw Data collection](#) », Eurostat / IT Directors Group, Luxemburg, Luxemburg, 25 October 2005

B. LOISON (2005), « [Managing the move to an outsourced environment: lessons learned](#) », OECD/UNO/CEE/Eurostat/Meeting on the management statistical information systems (MSIS), Bratislava Slovaquie, 18-20 April 2005

#### BOOK REVIEWS

[Modèle conceptuel de données: Volume 1 \(Système d'information informatisé de l'entreprise\)](#), ISBN-13: 978-1523869558

[Modèle logique de données relationnel: Volume 2 \(Système d'information informatisé\)](#), ISBN-13: 978-1539323112

[Modèle physique de données relationnel: Oracle](#), ISBN-13: 978-1729527450

[Modèle physique de données relationnel: MySQL](#), ISBN-13: 978-1097270682

[Recommended Practices for Editing and Imputation in Cross-Sectional Business Surveys](#), European Statistical System practices