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invisible -- 2.21 From idea to project -- 2.22 Conclusion about the coming about of AiREAS -- 2.23 Link with ethics and economies -- Part III "The Invisible made Visible": science and technology -- An introduction by Marco van Lochem -- 3.1 The ILM -- 3.2. Variables measured -- 3.3.3. Instrumentation -- 3.3.1 The Airbox -- 3.3.2 PM (PM10, PM2.5, PM1) sensor -- 3.3.3 UFP sensor -- 3.3.4 Ozone sensor -- 3.3.5 NO2 sensor -- 3.3.6 Temperature sensor and relative humidity sensor -- 3.3.7 Electromagnetic compatibility (EMC) -- 3.3.8 Experiences and recommendations -- 4 Data quality -- 4.1 Regular calibration and preventative maintenance -- 4.2 Experiences and recommendations -- 5 Locations and spatial sampling -- 5.1 Experiences and recommendations -- 6 Data management -- 6.1 The Airbox -- 6.2 Axians (1) -- 6.3 ECN -- 6.4 Axians (2) -- 6.5 Experiences and recommendations -- 7 Results -- 7.1 Initial tests of sensors -- 7.2 Evaluation of sensor precision -- 8 Scientific projects based on the ILM -- Part IV Experiences after 5 years of AiREAS and 1 year of ILM -- 9. The way things work at AiREAS -- 9.1 The workflow in AiREAS -- 9.2 Financial routine in AiREAS -- 9.3 Confidence based interaction -- 9.4 October 2013 general AiREAS participants meeting -- 9.5 Interpreting the ILM data -- 9.6 The transition -- 9.7 Communication -- 9.8 Benchmarking and referencing our practical ideologies -- 9.9 The royalty system -- 9.10 Some of the transformative issues -- 9.11 Conclusion. Index. .

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## Sommario/riassunto

This book describes the coming about and first results of the AiREAS "healthy city" cooperative in the city of Eindhoven and Province of North Brabant in the Netherlands. AiREAS is an initiative focused on the multidisciplinary co-creation of healthy cities using the core human value of human health and air quality as guiding principle for profound regional innovation. The unique group process that followed uses the complexity of the city of Eindhoven as living lab. It is an anthropology based initiative that invites directly to the same table of core innovative responsibility the local government, innovative business partners, scientific insights and research, and civilian participation. The first phase is described here in which the consortium decided to want to make the invisible of air pollution and human exposure visible for the integral innovative participation of all city's core pillars (policy, education, infrastructure, culture and entrepreneurship). The experience is unique in the world and proceeding now with more phases in Eindhoven and the role out of the same working format in other cities. This Brief is made available to inspire the world to address together the most complex issues of our current era: pollution, climate and core human values. .

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