Deliverables

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| D1.1 | [Mirko Bracale](https://spin-itn.eu/candidates/ESR1_3), Michel Campillo, and Helle Pedersen | [github](https://github.com/bracalem/measure_delay_CWT) | [Novel array processing approach](https://ec.europa.eu/research/participants/documents/downloadPublic?documentIds=080166e5ed43cbe9&appId=PPGMS) |
| D1.2 | [Le Tang](https://spin-itn.eu/candidates/ESR1_1) and Heiner Igel | [github](https://github.com/spin-itn/6C_anisotropy) | Open source processing toolbox + Jupyter notebooks |
| D1.3 | [Sebastian Noe](https://spin-itn.eu/candidates/ESR1_2) and Andreas Fichtner |  | Workflow for fiber- optic ground motion monitoring |
| D1.4 | Mohammad Amin Aminian |  | Database of cleaned OBS data, to be integrated in EPOS |
| D2.1 | [Declan Andrew](https://spin-itn.eu/candidates/ESR2_2) and Andrew Curtis | [github](https://github.com/Aangniu/NonlinearWave) | [SPIN Nonlinear wave propagation code](https://ec.europa.eu/research/participants/documents/downloadPublic?documentIds=080166e5f8546d81&appId=PPGMS) |
| D2.2 | [Manuel Asnar](https://spin-itn.eu/candidates/ESR2_1) and Christoph Sens-Schönfelder |  | Physical model for material response |
| D2.3 | Christoph Sens-Schönfelder, [Manuel Asnar](https://spin-itn.eu/candidates/ESR2_1), and [Zihua Niu](https://spin-itn.eu/candidates/ESR3_2) |  | Empirical description of materials under dynamic strain |
| D2.4 | [Foteini Dervisi](https://spin-itn.eu/candidates/ESR2_3), Margarita Segou, Brian Baptie, Ian Main and Andrew Curtis |  | Hybrid model for triggered seismicity in critical systems |
| D3.1 | [Julius Grimm](https://spin-itn.eu/candidates/ESR3_3) and Piero Poli | [github](https://github.com/spin-itn/detect-hidden-signals) | [Novel algorithm to detect hidden signals](https://ec.europa.eu/research/participants/documents/downloadPublic?documentIds=080166e5e8e78ccc&appId=PPGMS) |
| D3.2 | [Dominik Strutz](https://spin-itn.eu/candidates/ESR3_1) and Andrew Curtis | [github](https://github.com/spin-itn/GeoBED) | [Open source code for irrogation theory](https://ec.europa.eu/research/participants/documents/downloadPublic?documentIds=080166e5f8546d82&appId=PPGMS) |
| D3.3 | [Mahsa Safarkhani](https://spin-itn.eu/candidates/ESR3_4), [Schippkus, Sven](https://www.geo.uni-hamburg.de/en/geophysik/personen/schippkus-sven.html), and [Céline Hadziioannou](https://www.geo.uni-hamburg.de/en/geophysik/personen/hadziioannou-celine.html) |  | Database of multi- observable noise sources |
| D3.4 | [Zihua Niu](https://spin-itn.eu/candidates/ESR3_2) | [github](https://github.com/SeisSol/SeisSol/tree/damaged-material-nonlinear-drB) | Open source solver for nonlinear wave propagation |
| D4.1 | [Marco Dominguez-Bureos](https://spin-itn.eu/candidates/ESR4_2) and [Céline Hadziioannou](https://www.geo.uni-hamburg.de/en/geophysik/personen/hadziioannou-celine.html) |  | Dataset for transient material changes |
| D4.2 | [Eleanor Dunn](https://spin-itn.eu/candidates/ESR4_1) and Chris Bean |  | Catalogue of Volcano Seismicity |
| D4.3 | [Tjeerd Kiers](https://spin-itn.eu/candidates/ESR4_3) and Cedric Schmelzbach |  | Alpine permafrost monitoring tool box |
| D4.4 | [Sergio Diaz-Meza](https://spin-itn.eu/candidates/ESR4_4), Philippe Jousset, Charlotte Krawczyk |  | Subsurface response of volcanoes to volcanic excitation |