**UNECE High-level Group for the
Modernisation of Official Statistics**

**Business case for CSPA Application Architecture Patterns**

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| This business case was prepared by Sharing Tools Group, and is submitted to the HLG-MOS for their approval. |

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| **1 Purpose** |
| The CSPA Application Architecture Patterns group will work to describe an Application Architecture for CSPA services, and provide guidance, and patterns for creating services that are can be re-used (and/or shared) between NSI’s.  |
| **2 Description of the activity** |
| The group will create documentation to the official CSPA specification. This will include:* an Application Architecture blue-print, and through examples make it easier for NSI’s to use CSPA for their service development.
* guidance for other types of SOA archetypes, to offer value to existing investments in NSI’s.

The group will focus specifically on modern development techniques, like Microservice Architecture, containerization and event driven architecture. The commoditisation of algorithms, both within traditional statistical methodology and machine learning, and the way to package them is also something that will be looked into.   |
| **3 Alternatives considered** |
| The alternative is no action. This would result in a CSPA specification would not be specific enough, which would hamper re-usability of services. |
| **4 Expected Benefits** |
|[x]  Reduced costs |
|[x]  Increased efficiency |
|[x]  Reduced risks |
|[ ]  New capabilities to meet user needs |
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| **5 Type of Activity** |
|[ ]  New activity |
|[x]  Extension of existing activity |
|[ ]  Other *(specify below)* |
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| **6 Which key priorities in the HLG-MOS Strategic Framework does the proposed project relate to?** |
|[x]  Take cost out of our organisations to reinvest in more value added areas |
|[ ]  Explore new areas collectively and leverage each other’s' research investments in specific areas |
|[x]  Provide whole of government data ecosystems based on international standards, for better estimates in key policy areas |
|[ ]  Renew our governance and operating processes |
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| **7 How does the proposed activity relate to other activities under the HLG-MOS?** |
| This activity will provide content for the task team working on the updated CSPA specification.It has links to the Methodology Architecture proposal. |
| **8 Proposed start and end dates** |
| **Start:****End:** | January 2018December 2018 |
| **9 Expected costs** |
| A small task team of experts working virtually |