

## **Innovation-08**

**1. Brief Name of the Innovation:**

Collaborative Download (WP 2B)

**2. Contact Information:**

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**3. What is the technology?**

This technology helps to share the load of downloading among collaborators (mobile devices) and provide a fast and cheap solution of downloading files from Internet.

**4. What does the technology do?**

This technology helps to collaborate mobile devices interested to download similar files. It also distribute work load among collaborators in dynamic fashion. It combines WLAN and WWAN and can achieve throughput bounded by WLAN. It also handles churn of devices during download.

**5. Explain the specific problem this technology has created to address or solve:**

Collaboration of mobile devices when they are interested to download similar files.

**6. Why is it better? How much better?**

It distributed loads among devices in dynamic fashion, while existing algorithm waits to join all devices before downloading, it starts download immediately. It made 20% improvement in effective throughput compared to existing algorithm.

**7. Have you filed for Intellectual Property (IP)?Have Patent Cooperation Treaty (PCT) applications filed?**

No

**8. What is the development stage of this innovation:**

A prototype is developed with basic features. However, we are working on features like handling churn, free riding to make it more robust.

**9. Have any prospective users or buyers shown interest in this technology?**

No

**10. Who do you consider competitors or competing technology?**

Internet Service Providers

**11. List the milestones remaining to be accomplished to bring your technology to full development and ready for the intended end-user?**

Integrating churn, free riding.

**12. Broad Technical Specifications:**

This is an application developed for android platform, though easily can be ported for symbian also. It automatically search devices in range using Bluetooth having similar interest and makes a group of collaborative download. It distribute the loads among devices and every device downloads designated part of file and they exchange their part through Bluetooth to get complete file.

**13. Diagram or Pictures if any:**

None