

# DCP Design Toolkit

Prepared for presentation at Road Pavement Forum  
Meeting No.2/2021

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# Background

- Over the years, the CSIR has developed a series of DCP software versions under the Win DCP software packages
- In 2016, the Africa Community Access Partnership (AfCAP) commissioned a collaborative project to upgrade the original Win DCP software to reflect recent developments
- In 2020, the Research for Community Access Partnership (ReCAP) commissioned another project to develop a generic DCP-DN design manual
- Subsequently, a need to improve the DCP software to ensure it remains current was identified
- The project included developing training videos on the use of the upgraded software and the laboratory DN test

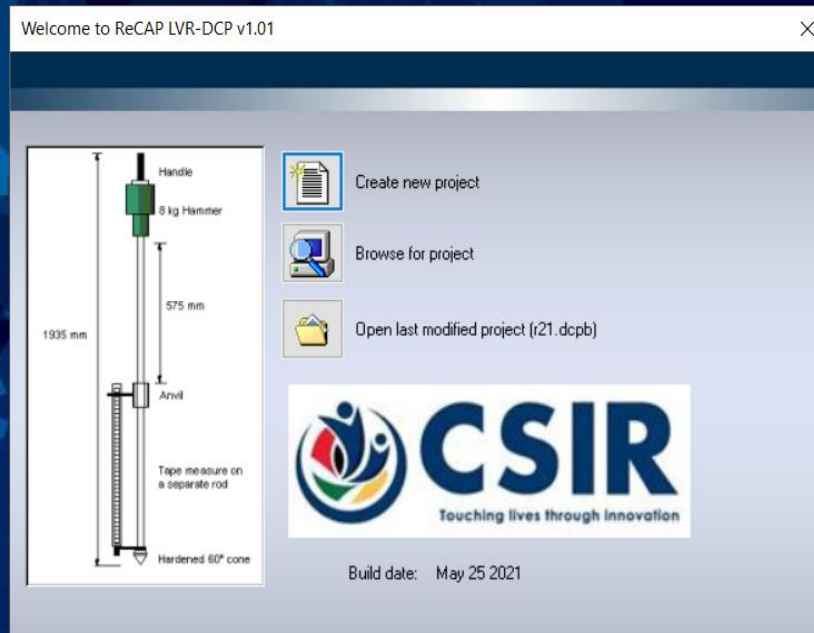
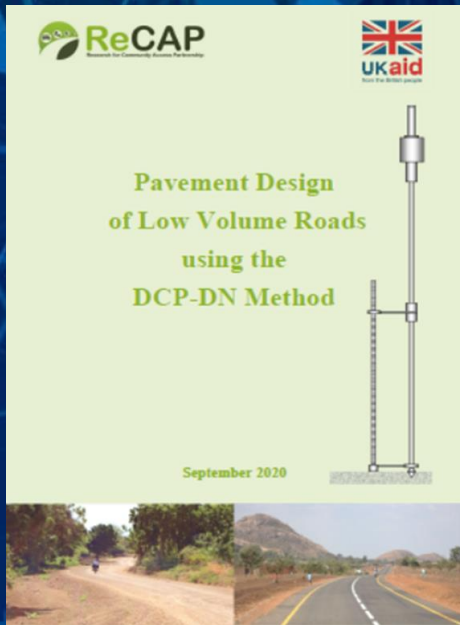
# Background Cont...

- ReCAP ended in December 2020
- The CSIR was approached to host the DCP Design Toolkit
- The hosting services include:
  - Maintain record of registered users
  - Facilitate free access to the design manual, software and training materials to registered users
  - Advise users of any updates to the design method and software. New version of software will be made available at a cost
  - Prepare and conduct training courses on a cost-recovery basis
- A dedicated DCP website has been created



# Purpose of presentation

- Inform participants the elements of the DCP Design Toolkit
  - Design manual
  - Upgraded software
  - Training videos
  - User forum
- How to access the Toolkit from CSIR website



# DCP Website – How to access the Toolkit

[www.dcp-dn.csir.co.za](http://www.dcp-dn.csir.co.za)



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## Dynamic Cone Penetrometer

Low Volume Roads DCP Software

# DCP Website – How to register



## Register

Username

First Name

Last Name

E-mail Address

Country

Organisation

Password

Confirm Password

Show Privacy Policy

Please confirm that you agree to our Privacy Policy

Show Terms and Conditions

Please confirm that you agree to our Terms and Conditions

Register

# DCP Website – How to login



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## Login

Username or E-mail

Password

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Register

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# DCP Website – After registration & login



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## Dynamic Cone Penetrometer

Low Volume Roads DCP Software



# DCP Website – Download software



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Version

1.0

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256

File Size

19.15 MB

Create Date

10 Mar 2021

## SOFTWARE TERMS AND CONDITIONS

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### Exclusion of liability

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# DCP Website – Training materials



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## Manuals

- Pavement Design for Low Volume Roads using the DCP-DN Method
- [User manual for the ReCAP LVR DCP Software](#)

## Training video on the ReCAP LVR DCP Design Software:

<https://youtu.be/0zIQd3yVpx4>

## Training video on the Laboratory DN Test Procedure:

<https://youtu.be/eCMogkF9qDs>

## Useful links:

[Pinard, M. et al \(2018\). Evaluation of Cost-Effectiveness and Value-for-Money of DCP-DN Pavement Design Method for Low-Volume Roads in Comparison with Conventional Designs, Final Report](#)

[Paige-Green, P. and Zyl, G. Van \(2019\). A Review of the DCP-DN Pavement Design Method for Low Volume Sealed Roads: Development and Applications](#)

[Pinard, M.I., Paige-Green, P., Hongve, J. and Mukandila, E. \(2020\). A Proposed Framework for Optimised Utilisation of Materials for Low Volume Roads Using the Dynamic Cone Penetrometer \(<https://doi.org/10.4236/jtts.2021.111002>\)](#)



# DCP Website – User forum



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Viewing topic 1 (of 1 total)

| Topic   | Voices | Posts | Last Post                    |
|---|--------|-------|------------------------------|
| Troubleshooting DCP-DN Software Installation problem<br>Started by:  Julius Komba | 1      | 1     | 2 months ago<br>Julius Komba |

Viewing topic 1 (of 1 total)

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Your account has the ability to post unrestricted HTML content.

Topic Title (Maximum Length: 80):

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# DCP Website – FAQ'S



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## How different is the ReCAP LVR DCP v1.01 design software from the previous AfCAP DCP v1.03 design software? ▲

The ReCAP LVR DCP v1.01 design software has been upgraded to reflect the latest DCP-DN design technology developments, as included in the generic manual on "Pavement Design of Low Volume Roads using the DCP-DN Method".

## What file format is used in the ReCAP LVR DCP v1.01 design software? ▲

The ReCAP LVR DCP v1.01 design software uses "dcpb" file format. However, "dcpa" projects file format created using the previous AfCAP DCP v1.03 design software can be exported into the ReCAP LVR DCP v1.01 design software.

## Can I use ReCAP LVR DCP v1.01 design software only to design a low-volume road? ▲

ReCAP LVR DCP v1.01 design software is only a tool and is not a substitute for sound engineering judgement, which the designer must always exercise. It is crucial that the manual on "Pavement Design of Low Volume Roads using the DCP-DN Method" be studied before attempting to use the software.

## What are additional resources available to the software users? ▶

## How do I download the ReCAP LVR DCP v1.01 design software? ▶

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**Thank you**