

**Reporting Period: 1 January 2018 – 31 December 2018**Submit your annual progress report via ISAAC, [www.isaac.nwo.nl](http://www.isaac.nwo.nl)**General details****1a. Details of programme/project leader**

-Name, title(s): 5.1.2e  
 -Affiliation: Leiden Institute of Chemistry, Leiden University  
 -Telephone: 5.1.2e  
 -Email: 5.1.2e@lic.leidenuniv.nl

**1b. Details of programme/project manager**

-Name, title(s): 5.1.2e  
 -Affiliation: Shell Global Solutions International B.V.  
 -Telephone:  
 -E-mail: 5.1.2e@shell.com

**1c. Title of research programme/project (& acronym)**

Promoter and poison effects in heterogeneous catalysis: Novel tools to shed fundamental insight (PromPoCat)

**1d. Programme/project number**

731.016.201

**Grant details****2. Recruitment efforts, assignments and purchase of equipment**

List the personnel hired for the project, and specify below any changes. Also include the personnel yet to be hired/positions to be filled in. If the recruitment of personnel is delayed please indicate what your efforts have been, e.g. ways of advertisement of the vacancies, number of applications reviewed, number of applicants interviewed, and which actions you are planning.

| Position (PhD/PD/TA) | Hiring institution | Name of Employee | Start date | End date |
|----------------------|--------------------|------------------|------------|----------|
| 5.1.2e               |                    |                  |            |          |
|                      |                    |                  |            |          |
|                      |                    |                  |            |          |

If indicated in the project plan, report about the status of purchase of the highly specific equipment related to the project. In case of any delays please specify cause and actions planned.

| Description in project plan | Supplier and model | Actual cost (€) | Acquisition date | Installation date |
|-----------------------------|--------------------|-----------------|------------------|-------------------|
| 5.1.2b, 5.1.2i              |                    |                 | 31.12.2018       | January 2019      |
|                             |                    |                 | 22.10.2018       | November 2018     |

**3. Realisation programme/project expenses****3a. Cash expenses**

Please indicate roughly how much of the total cash programme/project budget has been spent and will be spent the coming year(s).

| <2018 realised | 2018 realised | 2019-2021 planned | Total cash programme/project budget |
|----------------|---------------|-------------------|-------------------------------------|
| 5.1.2b, 5.1.2i |               |                   |                                     |

**3b. In-kind contribution(s) [if applicable]**

If of relevance, please specify the in-kind contribution per private partner up to and including this reporting period. Include the number of man hours and relevant tariffs, value of consumables and/or equipment. (Bear in mind that for the final project reporting at the end, it is required to provide NWO with an accounting of the in-kind contributions. In case a project partner's in-kind contribution that is to be accounted for exceeds 125,000 EUR, an auditor's statement must be provided; in other cases, a written statement by a proxy – to the effect that the in-kind efforts contributed are in fact attributable to the project – will suffice.)

| Project partner | Labour        |               |           | Consumables/ equipment | Total Value (€) |
|-----------------|---------------|---------------|-----------|------------------------|-----------------|
|                 | Man hours (h) | Tariff* (€/h) | Value (€) | Value (€)              |                 |
| Shell           | 5.1.2b,5.1.2i |               |           |                        |                 |
| DSM             |               |               |           |                        |                 |
| LPM             |               |               |           |                        |                 |
|                 |               |               |           |                        |                 |
|                 |               |               |           |                        |                 |

\* Note up to a maximum tariff of 5.1.2b,5.1.2i per hour.

**Specific progress in the reporting period****4. Specific aims of the reporting period**

5.1.2b,5.1.2i

**5. Deviations from original plan**

If of relevance, explain why the research activities deviate from the original project plan as described in the granted application.

5.1.2b,5.1.2i

**6. Programme/project results of the reporting period****6a. Scientific highlights**

5.1.2b,5.1.2i

**6b. Valorisation and Intellectual Property**

Briefly describe the importance of the results achieved so far for the industrial partners. And if of relevance, list the results that are being or have been protected by Intellectual Property.

The initial results are promising (see 6a), but as expected in such early stage of the project there has not yet been an opportunity for IP protection.

**6c. Status Milestones & Deliverables**

Present a table in which the status is indicated of the Milestones & Deliverables specified in the Project Agreement/project plan. Explain in more detail when the initially aimed level of completion has not (yet) been realised. (Consider to work with colour codes green-orange-red)

5.1.2b,5.1.2i

#### 6d. Status secondments [if applicable]

Briefly describe the aims of the secondment period, the status of the realisation of the secondment plan, any (foreseen) deviations and clarify the status of the outcome with respect to valorisation aims.

| Employee's name | Secondment host | Aim of the secondment | Outcome of the secondment | Nett duration (person months) |
|-----------------|-----------------|-----------------------|---------------------------|-------------------------------|
|                 |                 |                       |                           |                               |
|                 |                 |                       |                           |                               |
|                 |                 |                       |                           |                               |

#### NON CONFIDENTIAL Results / highlights

**ATTENTION:** NWO will use this text for publicity and publication on the NWO website. If applicable the text in section 7 may be used by NWO to report about the programme/project to TKI Chemistry, Netherlands Enterprise Agency (Rijksdienst voor Ondernemend Nederland), Ministry of Economic Affairs or Ministry of Education, Culture and Science.

**For the sake of clarity: NWO assumes that the text in section 7 has been approved by all consortium partners. When it appears that the information was not approved for publication and/or had to stay confidential NWO will not take responsibility.**

#### 7. Results and highlights of the reporting period of interest to the general public

Please, provide results/highlights of the programme/project in easily accessible language (in Dutch).

#### Plan for next reporting period

#### 8. Plan for next reporting period

Please describe the specific aims for the next reporting period (upcoming year). Indicate how this plan fits to the details as indicated in the tables of Milestones, Deliverables and Secondments.

5.1.2b,5.1.2i



| Appl. No.                                      |  | inventors |  |
|--|--|-----------|--|
|  |  |           |  |
|  |  |           |  |
|  |  |           |  |
|  |  |           |  |
| Other (e.g. spin-off, application in products) |  |           |  |
|  |  |           |  |
|  |  |           |  |
|  |  |           |  |