Land of Nordrhein-Westfalen (Germany)

Update following rating affirmation

Summary
The credit profile of the Land of Nordrhein-Westfalen (NRW, Aa1 stable) reflects its well-diversified and strong regional economy, as well as its excellent market access and sound debt management. The land’s financial performance is recovering from the impact of the coronavirus pandemic and the related economic slowdown in 2020 and 2021. We expect NRW to reach balanced budgets from 2022 onwards, earlier than initially expected. The land has very high debt, stabilising at around 200% of operating revenue over the next two years (see Exhibit 1). In addition, it has some exposure to contingent liabilities, and we caution over social risks stemming from demographic pressures of its ageing population with related costs. Similar to all German regions, its financial flexibility is limited. Lastly, the land is exposed to physical climate risks. The credit profile also reflects our assessment of a very high likelihood that the Government of Germany (Aaa stable) would provide support in acute liquidity stress.

Nordrhein-Westfalen has a very high debt level, but debt affordability improved and will remain low

Credit strengths
» Largest regional economy
» Excellent market access and debt management

Credit challenges
» Budgetary challenges weigh on financial performance, exposure to environmental risks
» Very high debt level, some contingent liabilities and social risks from demographics
» Low revenue and expenditure flexibility
Rating outlook
The rating outlook is stable, reflecting our assumption that NRW will reach financial surpluses from 2022 and maintain its commitment to reduce its debt burden over the coming years.

Factors that could lead to an upgrade
Upward rating pressure could arise if there is a significant improvement in NRW’s financial performance, including a further reduction in its debt burden, combined with a sustained track record of balanced financial budgets.

Factors that could lead to a downgrade
The following factors, although unlikely at present, could lead to a downgrade of Land of NRW’s rating: a significant deterioration in the land’s fiscal metrics leading to a substantial increase in debt levels, any alterations in the fundamental supportive structure of the Länder (regional governments) sector or a downgrade of Germany’s sovereign rating.

Key indicators

Exhibit 2
Land of Nordrhein-Westfalen

<table>
<thead>
<tr>
<th></th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
<th>2022F</th>
<th>2023F</th>
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<tbody>
<tr>
<td>Population (in mn)</td>
<td>17.9</td>
<td>17.9</td>
<td>17.9</td>
<td>17.9</td>
<td>18.0</td>
<td>18.0</td>
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<tr>
<td>GDP per capita (in EUR)</td>
<td>39,244</td>
<td>39,940</td>
<td>38,756</td>
<td>40,951</td>
<td>43,300</td>
<td>46,200</td>
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<td>GDP per capita as % of national average</td>
<td>96.6</td>
<td>95.5</td>
<td>95.7</td>
<td>95.3</td>
<td>95.7</td>
<td>95.8</td>
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<td>Intergovernmental revenues as % of operating revenues</td>
<td>15.5</td>
<td>15.3</td>
<td>30.6</td>
<td>25.0</td>
<td>21.6</td>
<td>13.0</td>
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<td>Interest payments as % of operating revenues</td>
<td>3.3</td>
<td>2.6</td>
<td>1.5</td>
<td>1.7</td>
<td>1.6</td>
<td>1.9</td>
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<td>Gross operating balance (GOB) as % of operating revenues</td>
<td>8.1</td>
<td>9.8</td>
<td>-4.0</td>
<td>2.5</td>
<td>9.0</td>
<td>8.3</td>
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<td>Capital expenses (Capex) as % of total expenses</td>
<td>10.0</td>
<td>11.0</td>
<td>9.7</td>
<td>8.9</td>
<td>10.7</td>
<td>10.3</td>
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<tr>
<td>Financing result (surplus or deficit) as % of total revenues</td>
<td>1.5</td>
<td>2.0</td>
<td>-12.7</td>
<td>-4.9</td>
<td>0.1</td>
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<td>Net direct and indirect debt (NDID) as % of operating revenues</td>
<td>236.6</td>
<td>230.5</td>
<td>204.5</td>
<td>204.4</td>
<td>210.6</td>
<td>220.6</td>
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<td>Short-term direct debt as % of total direct debt</td>
<td>13.6</td>
<td>11.4</td>
<td>10.6</td>
<td>9.3</td>
<td>8.0</td>
<td>7.3</td>
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</tbody>
</table>

2022-23F - Moody’s forecast.
Sources: Issuer, German Statistics Office, German Ministry of Finance and Moody’s Investors Service

Detailed credit considerations
On 19 August 2022, we affirmed NRW’s Aa1 rating and Baseline Credit Assessment (BCA) of aa3, with a stable outlook.

The credit profile of NRW, as expressed in its Aa1 stable rating, combines its BCA of aa3 and a very high likelihood of extraordinary support coming from the federal government in the event that the land faces acute liquidity stress.

Baseline Credit Assessment
Largest regional economy
Because of its size and economic relevance, NRW determines a large part of Germany’s economy. NRW is by far the most populous land in Germany, with around 18 million inhabitants, or around 22% of the national population. Its GDP makes up around 21% of Germany’s GDP and its per capita GDP is broadly in line with the German average.

The land’s economy tends to grow in line with the German average, despite the structural decline and ongoing transition of its emission-intensive heavy industry (steel and coal), which is located primarily in NRW. Nevertheless, the current energy crisis requires the reactivation of coal power plants, and even though this change is supposed to be temporary, it will affect NRW’s economy positively. In 2020, the land’s economy was slightly less burdened by the pandemic than the German average, as regions that are more dependent on industrial production in the automotive sector suffered more. Yet, similar to the German economy as a whole, the economic rebound in 2021 was less strong than initially expected as pandemic-related restrictions and supply chain bottlenecks
continued to weigh on private consumption and industrial activity. With the easing of supply-side constraints, increasing private consumption and industrial activity will be the main drivers of growth. Nevertheless, inflationary pressures will weigh on NRW’s financial profile.

In 2021, the land’s real GDP growth (2.2%) remained relatively close to the sovereign’s (2.9%). We recently revised our real GDP growth forecasts for Germany downwards for 2022 to 1.4% from 1.8% in the end of the second quarter as Germany heavily relies on Russian gas for heating, industry and power generation. We expect NRW’s economic growth to continue to be close to the national averaged.

Exhibit 3
NRW’s and Germany’s real GDP growth rates are closely connected because of the size of the region’s economy

<table>
<thead>
<tr>
<th>Year</th>
<th>National real GDP growth (%)</th>
<th>Regional real GDP growth (%)</th>
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<tr>
<td>2017</td>
<td>-6%</td>
<td>-6%</td>
</tr>
<tr>
<td>2018</td>
<td>-4%</td>
<td>-4%</td>
</tr>
<tr>
<td>2019</td>
<td>-2%</td>
<td>-2%</td>
</tr>
<tr>
<td>2020</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td>2021</td>
<td>2%</td>
<td>2%</td>
</tr>
<tr>
<td>2022F</td>
<td>4%</td>
<td>4%</td>
</tr>
<tr>
<td>2023F</td>
<td>4%</td>
<td>4%</td>
</tr>
</tbody>
</table>

2022-23F - Moody’s forecast.
Sources: German Statistics Office and Moody’s Investors Service

Excellent market access and debt management

NRW has excellent access to the capital markets because of a sophisticated state treasury, as well as excellent liquidity and debt management. The region has financial relationships with a broad range of investors, which are willing to grant it continued access to liquidity based on their confidence in the German Länder solidarity system. Its bonds are eligible for the European Central Bank’s public-sector purchasing programme, which supports the very low interest levels. Since 2019, NRW has been able to issue three bonds with an extremely long maturity of 100 years, which reduces refinancing risk for the land and, at the same time, locks in relatively low interest payments. This is strongly positive in view of the current increasing interest rate environment.

In the money markets, NRW has access to the inter-Länder liquidity pool, whereby individual Länder offer their surplus cash to other Länder, as well as access to the German state financing agency (BRD Finanzagentur GmbH).

The land’s access to capital markets is supported by a broad set of instruments and currencies. Since 2015, the land has issued several sustainability bonds and is committed to allocate the proceeds for a range of sustainability-related initiatives. The issuance of sustainability bonds is credit positive because it widens NRW’s investor base, and helps communicate and support its sustainable development policy.

Budgetary discipline is a constitutional requirement (debt-brake mechanism) that mandates each region to maintain structurally balanced budgets from 2020. However, the federal constitutional requirement was suspended for 2020, 2021 and 2022 because of the extraordinary emergency situation, which allows for the funding of measures to alleviate the economic and social impact of the pandemic. Accordingly, NRW’s special fund (Sondervermögen NRW-Rettungsschirm), which was set up with a supplementary budget in 2020 to fund pandemic-related additional expenditure and tax revenue losses (with a volume of up to €25 billion), will be phased out at year-end 2022; the fund had effectively raised €15.8 billion in total through borrowings.
Budgetary challenges weigh on financial performance and exposure to environmental risks

The pandemic and the resulting economic and financial effects have hurt the land’s financial performance. Additionally, the land faces physical climate risks, as reflected by the devastating summer floods in some areas of Nordrhein-Westfalen required a budget update during 2021 to address additional spending requirements. Moreover, the current energy crisis as well as high inflationary environment will affect the land’s budget by nominally boosting tax revenues, but also increasing infrastructure costs and personnel expenditures. While the effects of the pandemic are likely to recede from 2022, we expect some uncertainty around the predictability and planning of budget and execution to persist now due to headwinds stemming from the energy supply risks. We expect financial performance in 2022 and 2023 to improve further, with a small financial surplus likely to be achieved in 2023.

In 2021, the land’s operating balance recovered to a small operating surplus of 2.5% of operating revenue, compared with an operating deficit of -4% in 2020. We expect the operating surplus to rapidly increase to a 9% in 2022 and remain around a sound 8% for 2023.

Exhibit 4
Nordrhein-Westfalen’s financial performance weakened because of the pandemic, but will recover gradually

In 2021, because of the economic recovery and catch-up effects, tax revenue recovered by a surprisingly high 11.7% and this trend is expected to continue in 2022 at a much slower pace however and subject to the unfolding energy crises. In 2023, tax revenues are expected to further increase by 3.9%, which reflects the nominal impact of inflation on revenue accounts. Over the course of the pandemic, central government transfers, which were higher than initially expected, have helped the land limit its financial impact.

The havoc because of the devastating summer floods exerted additional pressure on the land’s budget, with immediate emergency relief costing NRW around €200 million, but the overall burden was mitigated by the federal government, which also provided €200 million for immediate support. Furthermore, the federal and regional government set up a reconstruction aid fund (Aufbauhilfe 2021) with a volume of up to €30 billion, with a pre-funding of €16 billion provided entirely by the federal government. The remaining funding will be provided by all Länder between 2021 and 2050 through an adjustment of the value-added tax revenue sharing agreement with the federal government, which NRW estimates will result in yearly tax revenue losses of €50 million for its budget. Germany has a strong and predictable equalisation system that combines tax sharing and financial transfers. With the amended financial equalisation scheme, from 2020, the Länder sector benefitted financially because of a higher share in value-added tax revenue, higher general federal transfers and higher supplementary transfers.

In 2021, the land reported a financing deficit of €4.7 billion, or 4.9% of total revenue, following a financing deficit of 13% a year earlier. The recent deficit was driven by borrowing receipts that were transferred to the special fund “NRW-Rettungsschirm”, which as of year-end 2021 had remaining liquidity of €5.4 billion earmarked for pandemic-related spending in 2022. We expect NRW to reach a balanced budget in 2022 and a small surplus of about 0.6% in 2023, earlier than initially expected.
Very high debt level, some contingent liabilities and social risks from demographics
The region’s direct debt was 168% of operating revenue in 2021. While positive financial results will lead to nominal debt decreases, as operating revenue will also decrease with the phaseout of central government support, we expect the land’s direct debt level (compared with operating revenue) to increase up to around 180% in 2023, before likely resuming a declining trend to around 165% by 2025.

The land’s indirect debt exposure (mainly consisting of guarantees to non-self-supporting entities) remained relatively stable in 2021. Overall, the land’s net direct and indirect debt was 200% of operating revenue in 2021, which we expect to temporarily increase slightly to 221% in 2023 (because of the denominator effect outlined above), before likely resuming a declining trend.

Exhibit 5
Nordrhein-Westfalen’s lower-than-pre-crisis debt levels to temporarily increase again as operating revenue temporarily decreases because of the phaseout of support

The decrease in the debt burden over the last decade was driven by budget consolidation, mainly through strong tax collection and low interest cost, but also by the winding down of Erste Abwicklungsanstalt (EAA, Aa1 stable), which is guaranteed by the land and included in its indirect debt.

Under the legal framework, EAA’s owners, who are also the former sole owners of WestLB AG (now Portigon AG), will likely remain liable for any future losses. For both EAA and Portigon, we expect NRW to step in, if needed. This commitment was demonstrated in March 2021, when a decision was taken to increase Portigon’s capital by €160 million, fully provided by the land. However, based on the available information, we expect the additional cost for the EAA wind-down, as well as any additional need to step in for Portigon, to be very limited. The land has built reserves of around €1 billion to cope with the payments stemming from the guarantees for its former bank.

NRW’s most significant contingent liability is NRW.BANK (Aa1/P-1 stable), which provides services to local small and medium-sized enterprises, the public sector and real estate development. The bank is well capitalised, and its total regulatory capital and common equity Tier 1 capital ratios were extremely strong at 44.6% and 44.4% of risk-weighted assets (RWA) as of year-end 2021, respectively, which we consider an extraordinarily strong loss-absorption buffer. We deem the entity to be self-supporting. NRW owns and guarantees NRW.BANK.
In line with most other German states we caution over social risks of demographics of an ageing population. Further, as for most
German states, NRW’s pension obligations are only partially funded. The land established a pension fund, which we regard as a positive
step in addressing the budget impact of its unfunded pension liabilities and rising pension cost. Currently, the pension fund has assets
of around €14 billion, but may cover less than 10% of pension obligations. This level of coverage of pension liabilities may be relatively
low, but is medium-to-high in the German context.

Debt service (including debt repayments and interest) accounted for around 18% of the land’s total revenue in 2021, which is
moderate. Interest expenditure was at 1.7% of operating revenue in 2021, which is low compared with that of other German Länder
and international peers. We expect both the ratios to remain favourable over the next three years, supported mainly by declining
refinancing needs, despite the increasing interest environment.

Low revenue and expenditure flexibility
As is the case for all German Länder, Nordrhein-Westfalen has a rigid expenditure structure and limited revenue-raising flexibility. Even
if its regional tax base grew above the national average, it would have only a limited effect on the land’s budgetary performance. The
above-average tax revenue growth would be partly offset by the equalisation system. In general, more than 90% of its revenue stems
from shared taxes and transfers, and the German Länder have only limited tax-setting rights.

The tax rates, with very few exceptions, are set at the national level, and some of the expenses are also set and defined at central
government level and are not adjustable by the land. Personnel expenses (including pension payments), which account for up to 40%
of the land’s operating expenses, are adjustable only over a very long period.

Extraordinary support considerations
NRW has a very high likelihood of receiving extraordinary support from the federal government, which reflects our assessment of the
high reputational risk for Germany as a whole in case of default by a land. Furthermore, under the Bundestreuekonzept, all German
Länder must express mutual solidarity in the event that one of them or the Federal Republic faces a severe budgetary crisis. Also,
the debt volumes and structure of the German Länder are extremely complex, and an event of nonpayment would be considered to
have a corresponding impact on Germany as a whole. The principle of solidarity is firmly entrenched in the Grundgesetz (basic law),
thereby providing a reassurance that, if required, financial support for a member in distress would be forthcoming. We have, therefore,
incorporated two notches of uplift, to Aa1 from aa3, into NRW’s final rating.
ESG considerations

Nordrhein-Westfalen, Land of’s ESG Credit Impact Score is Neutral-to-Low CIS-2

Exhibit 6

ESG Credit Impact Score

CIS-2
Neutral-to-Low

For an issuer scored CIS-2 (Neutral-to-Low), its ESG attributes are overall considered as having a neutral-to-low impact on the current rating; i.e., the overall influence of these attributes on the rating is non-material.

Source: Moody’s Investors Service

The Land of Nordrhein-Westfalen’s ESG Credit Impact Score is neutral-to-low (CIS-2), reflecting neutral-to-low exposure to environmental and social risk, along with very strong governance and policy effectiveness that mitigates the region’s susceptibility to these risks.

Exhibit 7

ESG Issuer Profile Scores

Environmental

E-2
Neutral-to-Low

Social

S-2
Neutral-to-Low

Governance

G-1
Positive

Source: Moody’s Investors Service

Environmental
The environmental issuer profile score is neutral-to-low (E-2), reflecting neutral-to-low risks for most environmental factors, other than physical and climate risk (which scores moderately negative). Nordrhein-Westfalen’s economy is well diversified, currently transitioning away from his historical emission intense heavy industry (steel and coal).

Social
The neutral-to-low social issuer profile score (S-2) reflects broadly neutral-to-low risks from most social factors, other than health and safety (which scores positive) and demographics (which scores moderately negative). As for Germany overall, the region faces a similar trend of ageing population, resulting in declining labour supply and higher pension and social cost. We view the coronavirus pandemic as a social risk under our ESG framework, given the substantial implications for public health and safety in the region.

Governance
The positive governance issuer profile score (G-1) reflects the very strong national institutional and governance framework. Budgetary discipline in Germany is a constitutional requirement, which requires each of the regions to maintain structurally balanced budgets. Budget planning in Nordrhein-Westfalen is very prudent, transparent and highly predictable.

ESG Issuer Profile Scores and Credit Impact Scores for the rated entity/transaction are available on Moodys.com. In order to view the latest scores, please click here to go to the landing page for the entity/transaction on MDC and view the ESG Scores section.
All of these considerations are further discussed in the "Detailed credit considerations" section above. Our approach to ESG is explained in our report on how the scores depict limited impact of ESG factors in advanced economy RLGs, negative in emerging markets and our cross-sector methodology General Principles for Assessing Environmental, Social and Governance Risks Methodology.
Rating methodology and scorecard factors

The assigned BCA of aa3 is close to the scorecard-indicated BCA of aa2. The matrix-generated BCA of aa2 reflects an Idiosyncratic Risk score of 3 (presented below) on a 1-9 scale, where 1 represents the strongest relative credit quality and 9 the weakest; and a Systemic Risk score of Aaa, as reflected in the sovereign bond rating for Germany.

For details about our rating approach, please refer to Rating Methodology: Regional and Local Governments, published on 16 January 2018.

Exhibit 8
Nordrhein-Westfalen, Land of Regional & Local Governments

<table>
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<tr>
<th>Baseline Credit Assessment – Scorecard</th>
<th>Score</th>
<th>Value</th>
<th>Sub-factor Weighting</th>
<th>Sub-factor Total</th>
<th>Factor Weighting</th>
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<td>Economic Strength [1]</td>
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<td>95.47%</td>
<td>70%</td>
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<td>Economic Volatility</td>
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<td><strong>Factor 2: Institutional Framework</strong></td>
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<td>Legislative Background</td>
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<td>Financial Flexibility</td>
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<td>50%</td>
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<td><strong>Factor 3: Financial Position</strong></td>
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<td>Operating Margin [2]</td>
<td>5</td>
<td>1.68%</td>
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<td>Interest Burden [3]</td>
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<td>1.76%</td>
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<td>Liquidity</td>
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<td>Debt Burden [4]</td>
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<td>204.43%</td>
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<td><strong>Factor 4: Governance and Management</strong></td>
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<td><strong>Idiosyncratic Risk Assessment</strong></td>
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<td><strong>Systemic Risk Assessment</strong></td>
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<td><strong>Scorecard-Indicated BCA Outcome</strong></td>
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</table>

[1] Local GDP per capita as % of national GDP per capita
[3] Interest payments/operating revenues
[4] Net direct and indirect debt/operating revenues
[5] Short-term direct debt/total direct debt
Source: Moody’s Investors Service; Fiscal 2021.

Ratings

Exhibit 9

<table>
<thead>
<tr>
<th>Category</th>
<th>Moody’s Rating</th>
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<tbody>
<tr>
<td>NORDRHEIN-WESTFALEN, LAND OF</td>
<td></td>
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<tr>
<td>Outlook</td>
<td>Stable</td>
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<tr>
<td>Issuer Rating</td>
<td>Aa1</td>
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<tr>
<td>Senior Unsecured</td>
<td>Aa1</td>
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<tr>
<td>Other Short Term -Dom Curr</td>
<td>(P)P-1</td>
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Source: Moody’s Investors Service
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